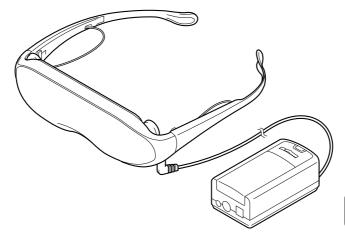
PLM-A35E

SERVICE MANUAL

AEP Model



Glassicon, Lite

SPECIFICATIONS

Power supply

AC power adaptor: AC-PLM2 100-240 V AC, 50/60 Hz, 16 W

100-240 V AC, 50/60 Hz, 16 Output voltage 9 V, 1.3 A

Battery pack: NP-F550 (not supplied)

Power consumption

1.8 W Approx.

Operating temperature

5°C to 35°C (41°F to 95°F)

Storage temperature

-10°C to 60°C (14°F to 140°F)

Dimensions

Display unit:

Approx. $173 \times 53 \times 56 \text{ mm}$

(Approx. $6^{7}/8 \times 2^{1}/8 \times 2^{1}/4$ inches)

(w/h/d, folded up)

Power supply box:

Approx. $53 \times 39 \times 104 \text{ mm}$

(Approx. $2^{1}/8 \times 1^{9}/_{16} \times 4^{1}/_{8}$ inches)

(w/h/d)

not including projecting parts and

contro

Mass

Display unit: Approx. 100 g (4 oz)

Power supply box: Approx. 90 g (3.2 oz)

Video signal

PAL colour, EIA standards

Audio/video input

Special minijack

1 Vp-p, 75 ohms, unbalanced, sync

negative

S video input

4-pin mini DIN

Y: 1 Vp-p, 75 ohms, unbalanced, sync

negative

C: 0.286 Vp-p, 75 ohms, unbalanced, sync

negative

Supplied accessories

AC power adaptor AC-PLM2 (1)

Mains lead (1)

Audio/video cable (special miniplug ↔

phono plug) (3 m) (1)

Audio/video cable (special miniplug ↔

stereo miniplug) (0.5 m) (1)

Plug adaptors

(phono jack ↔ phono jack) (3)

Nose piece (black) (1)

Side piece pads (2)

Operating instructions manual (1)

Safety Instructions (1)

Warranty (1)

Design and specifications are subject to change without notice.

GLASSTRON



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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

This section is extracted from instruction manual (3-868-186-31).

Glasstron is a brand-new concept in visual display

Congratulations on your purchase of a Sony Glasstron Personal Viewer. The Glasstron Glasstron Personal Viewer. The Glasstron, using current technology in small, lightweight visual displays, provides a television viewing experience similar to watching a 52-inch television from a distance of approximately 2 m (6.6 feet). (Viewing experience may differ according to individual perception.)

The Glasstron Personal Viewer creates an image through two separate liquid crystal displays, in close proximity to your eyes. To insure your safe use of the Glasstron, please become familiar with its basic operations, including proper fitting instructions, and be aware of any symptoms of eye fatigue or other discomfort you may experience.

WARNING

YOUR FAILURE TO FOLLOW THESE OPERATING INSTRUCTIONS MAY RESULT IN EYE FATIGUE, EYE IMPAIRMENT, OR OTHER EYE INJURY, PROPERTY DAMAGE OR DEATH.

WARNING
THIS PRODUCT SHOULD NOT BE USED
BY CHILDREN AGE 15 OR YOUNGER.
THE EYES OF CHILDREN ARE STILL
DEVELOPING AND MAY BE ADVERSELY
AFFECTED FROM USE OF THIS
PRODUCT.



Note on the LCD (Liquid Crystal

GB

Display)
The LCD screen is made with high-The LCD screen is made with high-precision technology. However, black points or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is not a malfunction. (Effective dots: more than 99.99%)

About the Glasstron

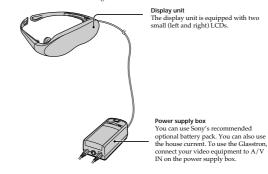
Caution: The screen is always right in front of you.

The Glasstron is a face-mounted display. With this type of display, the screen is always in front of you, even if you move your head. Because of this feature, you can concentrate on the screen more easily compared with ordinary TVs, and you have a sense of being in the action.

- . It is easy to adjust the Glasstron to your eyes. You can use the display unit even while wearing
- It Is easy to aquot use the Glasstron, the adjustment screen appears to help you adjust the display unit properly. You can also check whether the left and right screen positions are properly aligned or not.

 If you keep using the Glasstron continuously for three hours, a warning appears on the screen and the power will turn off automatically.

The Glasstron consists of the following items:



Features

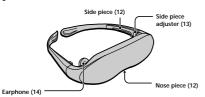
- A powerful, big screen experience comparable to watching a 52-inch screen from approximately 2 m (6.6 feet) away.
 Handy portable folding display.
 The display unit weighs only 100 g (4 oz).
 Approximate continuous use for up to seven hours with Sony's recommended battery pack, NP-F550.

3-GB 5-GB

Locating the parts and controls

Refer to the pages indicated in parentheses () for details

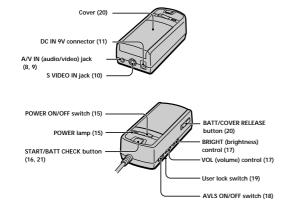
Display unit



Getting Started

1-1

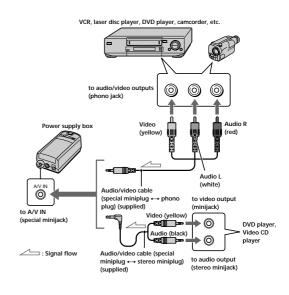
Power supply box

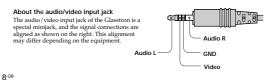


Connecting the Glasstron

Connecting video equipment

Connect a VCR, laser disc player, DVD player, or camcorder to the power supply box as shown below. Two AV cables are supplied. Select the correct AV cable according to the shape of the connectors on the unit to be connected.

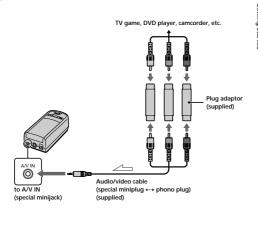




Confidential

Connecting other equipment

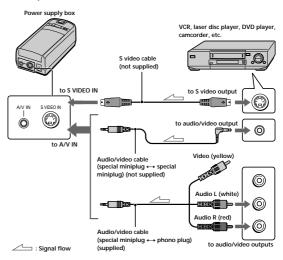
The plug adaptor (phono jack \leftrightarrow phono jack) is supplied. Use the plug adaptor according to the equipment you want to connect.



Connecting the Glasstron (continued)

If your video equipment has an S video jack

We recommend connecting the Glasstron to your video equipment using an S video cable and the audio/video cable to enjoy the highest quality pictures. In this case, you do not need to connect the video (yellow) plug. If you connect both the S video and video plugs, the S video signal is automatically selected.



Notes

Notes

Even if you use the supplied audio/video
cable, the audio and video signals may not be
carried to the Glasstron depending on the
video source. In this case, contact your Sony
dealer or local authorized Sony service
facility.

· When you connect the Glasstron to the audio When you connect the Glasstron to the audio output jacks (phono jacks) of your video equipment, connect the Glasstron to both the right and left audio output jacks. If you connect the Glasstron to just one audio output jack, you will hear sound from only one of the stereo earphones.

g-GB

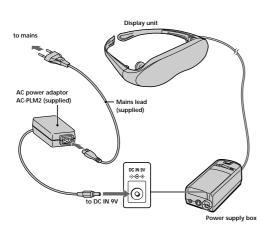
Getting Started

10-GB

Connecting the power source

: Signal flow

Connect the AC power adaptor AC-PLM2 (supplied) to mains. Do not connect the power source until all other connections are complete.



Wearing the Glasstron

WARNING

 Failure to properly fit the product (see "Proper Fit," page 5 on the Safety Instructions) each time may result in eye fatigue, eye damage, or loss of visual functions and may result in accident or injury.

This product should not be used by children age 15 or younger

The eyes of children are still developing and may be adversely affected by use of this product, and it may cause eye fatigue, eye damage, or loss of visual functions. In addition, this product may not be adjusted to fit a child's head.

If you normally wear glasses while watching TV, you can use the Glasstron while wearing glasses. When you take the Glasstron off, be careful that your regular glasses not get caught on the Glasstron.

Adjust the nose piece and put on the Glasstron.

Pull out the nose piece if you wear

Open the side pieces by grasping the side piece tips and put on the Glasstron.

Caution:

Be careful not to poke your eyes with the side piece tips when putting the Glasstron on or off.



Adjust the angle of the display unit.

Adjust the angle of the side pieces by grasping the side piece tips to adjust the display unit to the most suitable viewing position.

You do not necessarily have to rest the side pieces on your ears.



To use the supplied nose piece

If you are still unable to have a full view of the screen or clear picture colour on the Glasstron after performing step 2 above, replace the nose piece with the supplied nose piece (black).

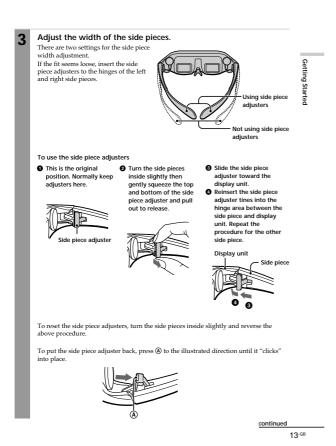
Remove the nose piece in an upward direction while grasping the nose piece support.

2 Insert ® of the supplied nose piece (black) into the round notch ®.





11^{-GB} 12^{-GB}



Wearing the Glasstron (continued)

For increased comfort while wearing Glasstron If the Glasstron fit is loose or uncomfortable, place the supplied side piece pads onto the tip of each side piece. Note Use the side peace pads pocket-side inward.



Wear the stereo earphones.

Detach the stereo earphones from the display unit and put them in your ears.



- Notes

 If the stereo earphones are loose, we recommend using the spare ear-pads (not supplied).
 If your head is small, you may not be able to use the Classtron.
- Depending on your eyesight, you may not be able to focus on the picture properly. In such a case, it is not a malfunction.

Using the Glasstron (continued)

Left screen

The combined picture ou see with both eyes

Correct

14-GB

Using the Glasstron

If you set the user lock, unlock it (page 19).

Be sure to follow the procedures in "Connecting the Glasstron" (pages 8 - 11) and "Wearing the Glasstron" (pages 12 - 14).

WARNING

Each time you use this product, adjustment screens will appear, requiring the viewer to properly fit the product. To prevent eye damage, do not use this product if the vertical lines do not cross the horizontal line on the next screen.

The Glasstron includes two small (left and right) LCDs. You are watching a combined picture created from these two screens. Although the screen position is properly aligned at the factory, it may become misaligned if the Glasstron is deformed or damaged. Check the screen position alignment every time you turn on the Glasstron. If you cannot have correct screen alignment, stop using the Glasstron immediately.

Turn on the Glasstron using the POWER ON/OFF switch.

The POWER lamp lights up.





Incorrect

When no vertical lines

eye fatigue or eye damage. Incorrect

If the screens are aligned, press the START/BATT CHECK button.

If the image you see matches one of the pictures below, you have correct screen alignment.

If the image you see matches one of the pictures below, stop using the Glasstron immediately. Use of the Glasstron under such conditions may cause

Correct

Right screen You may see a horizontal line on the left screen rather than the right screen and vertical lines on the right screen rather than the left screen.

This is not a malfunction

diagonal line.

When the centre vertical line does not cross the horizontal line.

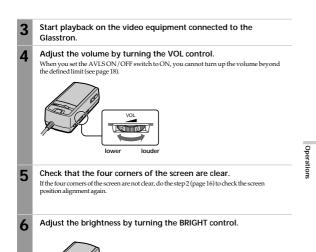
If you cannot see a proper arrangement of these lines even after resting your eyes for a few hours, the Glasstron may not be operating correctly. Contact your Sony dealer or local authorized Sony service facility.

continued

15^{-GB}

Confidential

16^{-GB}



brighter

less bright

Using the Glasstron (continued)

After you finish using the Glasstron

Take off the Gla

Note on the LCDs

Note on the LUD The LCD screen is made with high-precision technology. However, black points or bright points of light (red, blue, or green) may appear constantly on the LCD screen. This is not a malfunction. (Effective dots: more than 99.99%)

Preventing sound from escaping through the stereo headphones

-- AVLS (Auto Volume Limiter

System):

Keeps down the maximum volume to protect your ear. You cannot turn up the volume beyon d the defined limit even if you try to turn it up.



To turn the AVLS off Set the AVLS ON/OFF switch to OFF.

Screen warnings against overuse of the Glasstron

To prevent eye fatigue or eye damage, after you use the Glasstron for three hours the following caution appears on the screen and the power turns off automatically.

TIME OUT ZEIT ZU ENDE TEMPS DEPASS

Caution: Motion sickness from viewing programmes.

Viewing programmes.

Some viewers may experience motion sickness, headache or nausea from viewing movies or video programmes, especially those with intense action and movement. If you feel any of these symptoms, stop using the product immediately. To avoid personal injury or injury to others, do not drive a car or motorcycle, nor do anything that requires concentration until the symptoms. disappear.

Caution: Motion sickness from external motion.

Do not use the product while subject to external motion — for example, as a passenger in a car. Use of this product under these conditions may cause motion

continued

17-GB

18-GB

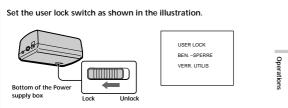
Setting the user lock

WARNING

This product should not be used by children age 15 or younger. The eyes of children are still developing and may be adversely affected by use of this product. To prevent such use, this product is equipped with the user lock system.

When the user lock is on, audio and video signals are not input and all operations except power on/off are disabled. on/off are disabled.

To use the Glasstron, unlock the user lock.



To unlock the user lock Set the user lock switch to the opposite position.

Using an optional battery pack

If you use a battery pack such as the NP-F550/F750/F950, you can use the Glasstron without connecting to mains.

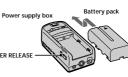
Charge the battery pack before use by using the optional battery charger, BC-V615. You cannot charge the battery pack while it is on the unit.



Attach the battery pack to the power supply box.

Install the battery pack properly making sure it is not crooked against the power supply box.

To remove the battery pack, slide and hold the BATT/COVER RELEASE button and pull the battery pack off.



BATT/COVER RELE button	EASE OF STREET

Battery pack	Battery life
NP-F550	Approx. 7 hours

- * The above indications are for fully charged
- Actual battery life depends on conditions of
- "You can also use a battery pack such as the NP-F330/F930/F930/F950/P950 (not supplied) with the Glasstron. You can use an "InfoLITHIUMns" battery pack with the Glasstron When using such a battery pack, the estimated remaining battery life is displayed with the indicator instead of the time counter.

- Notes

 While using the battery pack, if you connect or disconnect the AC power adaptor, the power turns off. To turn the power on, press that the Power turns off. To turn the power on, press If the POWER language first that the power of the battery pack, replace the abttery pack with a fresh one.

 Battery life may be shorter in a cold environment. This is a typical battery characteristic.

"InfoLITHIUM" is a trademark of Sony

19^{-GB} 20^{-GB}



Warranty (1)

Checking the supplied accessories

Check that the following accessories are supplied with your Glasstron. If any item is not supplied, contact your Sony dealer or local authorized Sony service facility.

• Display unit/Power supply box (1)



AC power adaptor AC-PLM2 (1)



• Mains lead (1)



(special miniplug ←→ phono plug) (1)



 Audio/video cable (special miniplug ← stereo miniplug) (1)







Operating instructions manual (1)

Safety Instructions (1)

When the battery pack is weak, the

BATTERY DOWN

AKKU LEER

PILE PLATE

following message appears on the screen. Replace the battery pack with a charged one.

When using the AC power adaptor. the " - mark appears on the

ning battery life

21^{-GB}

6-GB

Precautions

Fully charg

Use

Operate the product only with the supplied AC power adaptor (AC-PLM2). If you use a different AC power adaptor, it may cause a malfunction.

Checking the remaining

When no indication or caution appears on the

screen, press the START/

BATT CHECK button.

The remaining battery life appearand the picture disappears.

battery life



Unified polarity plug

Should any liquid or solid object fall into the cabinet, unplug the product and have it checked by qualified personnel before operating if further.
 Always turn the product off when you do

Always turn the product off when you do not use it.
 Unplug the product from the mains if you are not going to use it for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
 Do not overload mains, extension cords, or convenience receptacles beyond their capacity, since this can result in fire or electric sphore.

electric shock Do not use attachments not recommended

by the manufacturer, as they may cause hazards.

hazards.

Avoid using earphones at high volume.
Hearing experts advise against
continuous, loud, and extended play. If
you experience a ringing in your ears,
reduce volume or discontinue use.

Do not touch the AC power adaptor or power supply box with wet hands. If you fail to observe this, it may cause electric

an to observe this, it may cause electric shock.Do not drop or give a mechanical shock to the product.

Installation

Installation

• To prevent internal heat buildup, do not block the ventilation openings.

Avoid operating the product at temperatures below 5°C (41°F).

Do not subject the product to high temperature or direct sunlight. If you do not observe the above instructions, the product may become deformed and the screens may become impossible to align. If you keep watching misaligned screens, you may develop eye fatigue. Follow the instructions in "Using the Glasstron" (pages 15 - 18), to be sure the screens are aligned. If you find the screens misaligned, have the product repaired at your Sony dealer or local authorized Sony service facility.

• Do not place the product in locations where it is wet, humid, dusty, smoky, or steamy. Do not use this product near or around water. It may cause fire or electric shock. Especially, do not use the product in the bathroom.

If the product is transported directly from a cold to a warm location, or if the room

in the bathroom.

If the product is transported directly from a cold to a warm location, or if the room temperature has changed suddenly, the picture may be blurred or show poor colour. This is because moisture has condensed on the lenses inside. If this

condensed on the lenses inside. If this happens, let the moisture evaporate before using the product.

• Do not place the product on an unstable cart, stand, table, or shelf. The product may fall, causing serious injury to a child or an adult, and serious damage to the product.

or an adult, and serious damage to the product.

Do not allow anything to rest on or roll over the power cord, and do not place the product where the power cord is subject to wear or abuse.

Others

Unplug the product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 When the power cord or plug is damaged or frayed.
 If liquid has been spilled into the product.

- If the product has been exposed to rain

If the product has been exposed to rain or water.

If the product has been subject to excessive shock by being dropped, or the cabinet has been damaged. If the product does not operate normally when following the operating instructions. Adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.

When the product exhibits a distinct change in performance — this indicates a need for service.

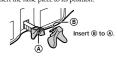
Do not disassemble or modify the

 To not disassemble or modify the product. It may cause fire or electric shock. Have the product checked and repaired at your Sony dealer or local authorized Sony service facility.
 Do not attempt to service the product yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
 When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts. original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Upon completion of any service or repairs to the product, ask the service repairs to the product, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the product is in safe operating condition, and to so certify. Unplug the product from the mains before cleaning. Clean the product gently with a dry, soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Donot use any turn of salvent

solution. Do not use any type of solvent, such as alcohol or benzine.

If the nose piece is disconnected



If the side pieces are disconnected

OISCONNECTED

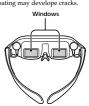
You can reattach the side piece.
Insert the side piece to the inner side of the display unit. Gently push until it clicks into position.

However, reattaching the side pieces may cause a malfunction. Be careful not to reattach them too often.



Window coating
To avoid reflection, the windows are coated. Do not place the product in locations subject to sudden temperature changes, or where it is excessively hot (above 60°C/96°F). For example, inside a car parked in direct sunlight.

sunlight. The coating may develope cracks



22^{-GB} 23^{-GB}



Additional

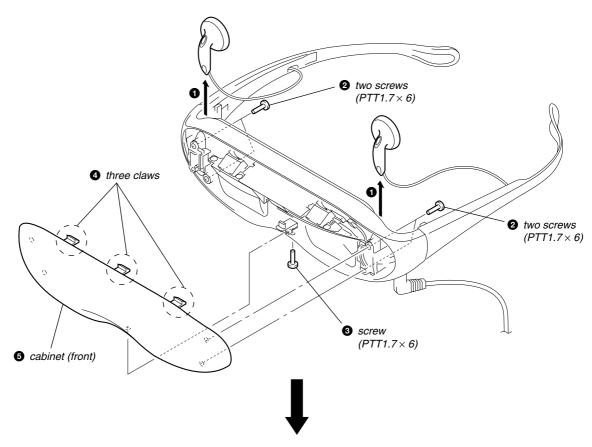
<u>MEMO</u>

Confidential

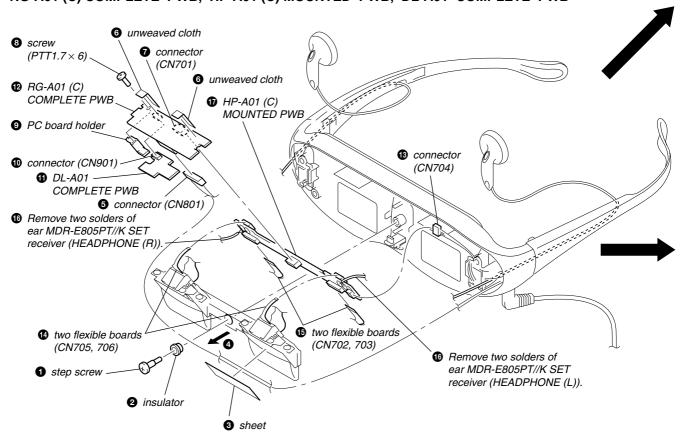
SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

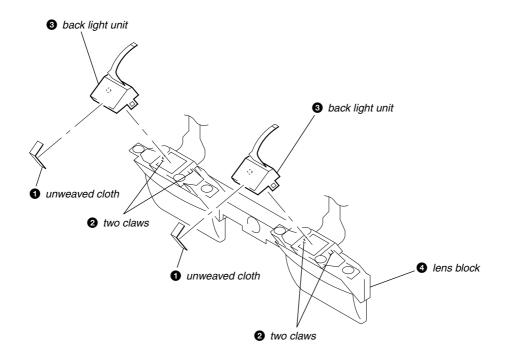
CABINET (FRONT)



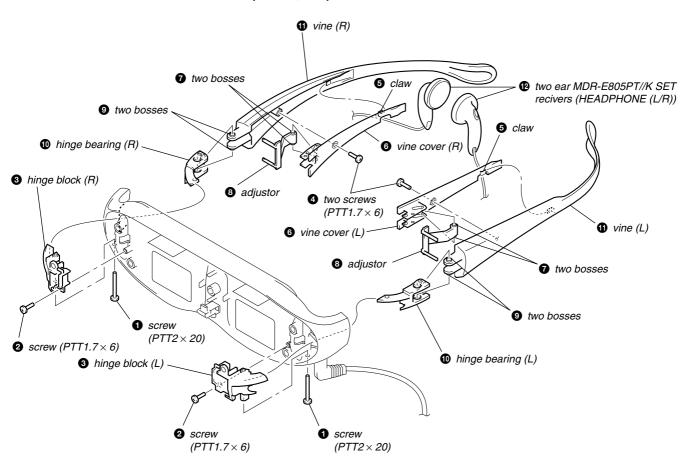
RG-A01 (C) COMPLETE PWB, HP-A01 (C) MOUNTED PWB, DL-A01 COMPLETE PWB



BACK LIGHT UNIT



EAR MDR-E805PT//K SET RECIVER (HP701, 702)



SECTION 3 ELECTRICAL ADJUSTMENTS

Precautions on adjustment:

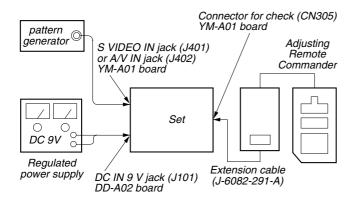
- 1. Perform the adjustment in the given order.
- 2. Power supply voltage: DC 9 V
- 3. Equipment required
 - Electrical adjustment requires the following measuring equipment.
- (1) Oscilloscope: 2 phenomena, band 30 MHz or more, with delay mode (use 10: 1 probe unless otherwise specified)
- (2) Pattern generator
- (3) Regulated power supply
- (4) Digital voltmeter
- (5) Frequency counter
- (6) Connector for adjustment
- Measurement points for adjustment are located at CN803 on the RG-A01 board. The pin No. and signal name of CN803 is listed below.

• RG-A01 Board, CN803

Pin No.	Signal Name	Pin No.	Signal Name
1	GND	6	HD
2	G OUT	7	NC
3	B OUT	8	NC
4	R OUT	9	NC
5	GND	10	NC

Preparation:

Connect electrical blocks as shown below.



Note: In the adjustment where the S VIDEO input is designated, if adjustment was made with the VIDEO input. The specification of this set will not be satisfied. Always follow the designation. If adjustment was made using the VTR with S VIDEO OUT terminal as a signal source, the performance of this set depends on that VTR. Therefore, use the pattern generator with the Y/C separate output terminals, if possible.

5. Setting up Input Signals

(1) S VIDEO Signal

Connect an oscilloscope to the Y signal pin of the S VIDEO IN connector, and check that the sync signal of Y signal is approximately 0.3 V, video amplitude is approximately 0.7 V, and the setup level is 0 V. (If using the VTR with S VIDEO OUT terminal, check further that the chroma signal and burst signal do not remain.)

Also, connect an oscilloscope to the chroma signal pin of the S VIDEO IN connector, and check that the burst signal amplitude of chroma signal is approximately 0.3 V and it is flat, and moreover, the amplitude ratio of burst signal to "red" signal is 0.30: 0.66.

Setup level: Potential difference between black and pedestal

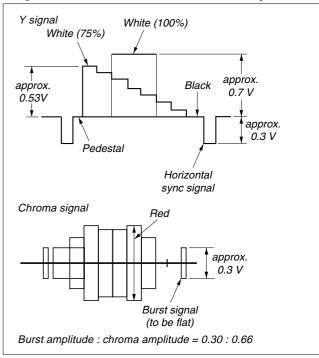


Fig. 3-1. Pattern generator's color bar signals

(2) VIDEO Signal

In adjusting this set, video signals obtained from the pattern generator are used, and therefore these video output signals must satisfy the specification. Connect the oscilloscope to the VIDEO IN terminal, and confirm that the sync signal amplitude of video signals is approximately 0.3 V, the amplitude of video part is approximately 0.7 V, burst signal amplitude is approximately 0.3 V and flat, and the level ratio of burst signal to "red" signal is 0.30:0.66.

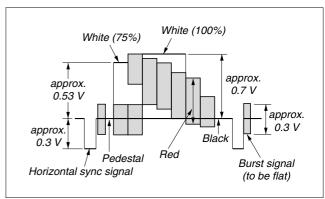


Fig. 3-2. Pattern generator's color bar signals

Confidential

[Preparation for Adjustment]

- Service Jigs
- (1) Adjusting remote commander (RM-95-modified)

Note: J-6082-053-B

 Extension cable (for remote commander plug converter) J-6082-291-A

Note: The page will not be changed over, unless the microprocessor in the adjusting remote commander is a new one (uPD7503-G-C56-12). In such a case, replace with new microprocessor (8-759-148-35)

2. Adjusting Remote Commander

For the adjustment, the adjustment data saved in the nonvolatile memory (EEPROM) must be rewritten, and for this purpose the adjusting remote commander is used.

The adjusting remote commander makes two-way communication with the set using a remote control signal line (LANC). The adjusting remote commander transmits pages, addresses, and data up/down commands to the set. The set transmits pages, addresses, and data to the adjusting remote commander.

- 3. How to Use The Adjusting Remote Commander
- Connect the adjusting remote commander to the CN305 on YM-A01 board via extension cable (J-6082-291-A).

At this time, set the switch of extension cable to OFF (OPEN) position

Turn ON the power on the set.

 Set the HOLD switch on the adjusting remote commander to the HOLD (SERVICE) position.

If connection is normal, the LCD display on the adjusting remote commander will be as shown in Fig.3-3.

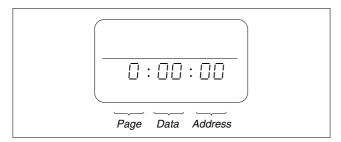


Fig. 3-3

- (3) Operate the adjusting remote commander as follows:
 - Page change

Press the EDIT SEARCH + button to increase the page. Press the EDIT SEARCH – button to decrease the page. There are 16 pages from 0 to F.

Hexadecimal numbers	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F
LCD display	П	1	2	3	4	5	5	7	8	9	Я	Ь	С	Ь	Ε	F
Decimal conversion	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

· Address change

Press the FF $(\blacktriangleright \blacktriangleright)$ button to increase the address. Press the REW $(\blacktriangleleft \blacktriangleleft)$ button to decrease the address.

There are 256 addresses from 00 to FF.

• Data change (data setting)

Press the PLAY () button to increase the data.

Press the STOP (\blacksquare) button to decrease the data.

There are 256 data from 00 to FF.

• Adjustment data writing

The PAUSE button must be pressed to write adjustment data (D page) to the nonvolatile memory (EEPROM). (Unless the PAUSE is pressed, new data are not saved in the nonvolatile memory.)

- (4) Select page: 1, address: 00, and set 01 data. Thus, the data input to page: D is enabled.
- (5) After the adjustment finished, select page: 1, address: 00, and set 00 data. Thus, the data change on page: D is disabled.
- (6) After all adjustments finished, turn OFF the main power supply (9 V) once.
- 4. Precaution on Use of The Adjusting Remote Commander Misoperation of the adjusting remote commander could erase correct data. To prevent this, it is recommended to make a note of data from page: D before adjustment, and also to make a note of new adjustment data each time the adjustment of one item is finished.

Adjusting Remote Commander RM-95 (J-6082-053-B)

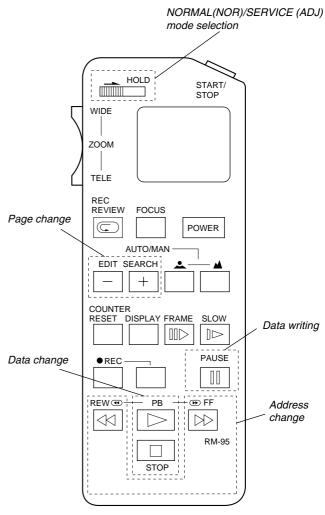


Fig. 3-4

5. Data Processing

Certain adjustment items require the microprocessor data to be read out or the displayed data (hexadecimal numbers) on jigs or adjusting remote commander to be calculated to get adjustment data. In such a case, convert hexadecimal numbers into decimal numbers once, then make calculation, and convert its result into hexadecimal number as adjustment data. Table 3-1 shows hexadecimal – decimal number conversion.

1 \	Lower digit														*		
High of he	of hex. mer digit ex.	0	1	2	3	4	5	6	7	8	9	A (F)	B (b)	C (c)	D (d)	E (£)	F (F)
0		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
2		32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
3		48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
4		64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
5		80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
6		96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
7		112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
8		128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
9		144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
A ((A)	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
①→ B (Ь)	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
C (c)	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
D (d)	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
E (E)	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
F (F)	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255

Table 3-1

 $\textbf{Note:} \ \ \text{Data in (\)} \ \ \text{are displayed on jig or adjusting remote commander}.$

Example: If display on jig or adjusting remote commander is BD (bd)

As higher digit of hex. number is B (b) and lower digit is D (d), the intersection "189" of ① and ② in Table 1 is the target decimal number.

- 6. Power ON Procedure for Adjustment
- (1) Connect an extension cable to the adjusting remote commander.
- (2) After making sure that the HOLD switch on the adjusting remote commander is not turned on (not at left (NOR) position), supply 9 Vdc to the DC IN (J101).
 - (With the HOLD switch at HOLD position, the initial operation of the set does not finish, disabling the POWER switch function)
- (3) Turn ON the POWER switch on the set. Confirm that a green LED lights up.
- (4) Set the HOLD switch on the adjusting remote commander to the HOLD (right (ADJ)) position.

7. Adjustment Finishing Procedure

Order	Page	Address	Data	Description	Remarks
1.	D	01 - 31		Check if adjusted data are written correctly to the given page and ad	dress.
2.	2	00	00	Set data 00 to given page and address.	Page 2: Reset
3.	1	00	00	Set data 00 to given page and address.	Page D: Write protect

4. Set HOLD switch on adj. remote commander to NOR position.

8. Check screen skip mode setting

Order	Page	Address	Data	Description	Remarks
1.	2	00	01	Set data 01 to given page and address.	Select RAM address page 1
2.	2	2C	00	Set data 00 to given page and address.	No output check screen

Resetting: Turn the POWER switch off.

9. Picture control standard setting (LCD and OPTICS blocks adjustments)

Order	Page	Address	Data	Description	Remarks
1.	1	00	01	Set data 01 to given page and address.	Page D: Cancel protect
2.	D	01	41	Set data 41 to given page and address, and press PAUSE.	Ope. – Brightness: Center

After LCD and OPTICS blocks adjustments

Order	Page	Address	Data	Description	Remarks
1.	1	00	01	Set data 01 to given page and address.	Page D: Cancel protect
2.	D	01	01	Set data 01 to given page and address, and press PAUSE.	Ope. – Brightness: Reset center

[Preset Data Writing]

Connection:

(1) Connect the adjusting remote commander to the CN305 on YM-A01 board.

Data Writing Procedure

(1) Set data: 01 to page: 1, address: 00.

(2) Enter the data given in the table below.

Note: To write the data to the EEPROM, press the PAUSE button on the adjusting remote commander each time the data is set.

(3) After writing all data, set data: 00 to page: 1, address: 00.

D Page Adjustment Address and Initial Value

Data in () in Initial set column are different from the data adjusted at the shipment.

Make setting and adjustment only when IC302 (EEPROM) was replaced.

Data in Memo column are fixed value. Always set to this value.

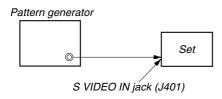
Address	Da	ata	Remarks
Address	Initial set	Memo	Remarks
00	_	_	Not used
01	01	(01)	LCD, OPTICS blocks adj. (Set data: 41 during adj.)
02	00	00	Fixed value
03	00	00	1 ixed value
04	(7D)		
05	(78)		
06	(75)		Battery down adj.
07	(67)		
08	(60)		
09	(08)		
0A	4A	4A	
0B	03	03	
0C	40	40	
0D	00	00	Fixed value
0E	40	40	
0F	0B	0B	
10	00	00	
11	74	74	Fixed value
12	(80)		Color adj.
13	(A0)		G brightness adj.
14	(1A)		G contrast adj.
15	(80)		R brightness, white adj.
16	(80)		B brightness, white adj.
17	A2	A2	
18	CE	CE	Fixed value
19	80	80	
1A	(80)		R contrast adj.
1B	(80)		B contrast adj.
1C	6D	6D	
1D	0A	0A	Fixed value
1E	80	80	
1F	(80)		TG PLL adj.
20	03	03	
21	00	00	
22	00	00	
23	00	00	Fixed value
24	00	00	
25	00	00	
26	0D	0D	

Address	Da	ata	Remarks		
Address	Initial set	Memo	Iveillains		
27	0D	0D	Fixed value		
28	(A0)		V. COM R adj.		
29	(A0)		V. COM L adj.		
2A	(C0)		BL balance adj.		
2B	(C0)		DE balance auj.		
2C	00	00			
2D	00	00	Fixed value		
2E	00	00	Trixed value		
2F	00	00			
30	(FF)		Brightness vol. center adj.		
31	23	23	Fixed value		
32-FF	_		Not used		

3-5

LCD BLOCK

• To adjust the LCD block, connect a pattern generator as shown below. (For details, see page 3-1)



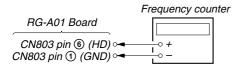
- Set the picture control standard. (See page 3-4)
- Make the following adjustment in the given order.

[TG PLL Adjustment]

Condition:

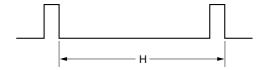
Input signal	No signal
Measurement point	RG-A01 board CN803 pin 6
Measuring equipment	Frequency Counter
Adjustment page	D
Adjustment address	1F
Specified value	15.625 kHz ± 20 Hz

Connection:



Adjustment Procedure:

- (1) Connect a frequency counter to the CN803 pin (6) (HD) and pin (1) (GND) on RG-A01 board.
- (2) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (3) On page: D, address: 1F, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the frequency counter reading satisfies the specified value.



Adjustment and Connection Location: RG-A01 board (see page 3-14)

[Brightness Volume Center Adjustment] Preparation:

BRIGHT control (RV301): Center (click position)

Condition:

Input signal	Color bar signal (white 75%)
Measurement point	Displayed data on the adjusting remote
Measuring equipment	commander
Adjustment page	D
Adjustment address	30
Specified value	$XXh = 80h \pm 09h$

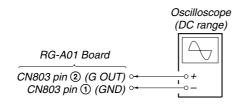
- (1) Set data: 01 to page: 2, address: 00.
- (2) Read data: XXh on page: 2, address: 2A.
- (3) Confirm that the data: XXh satisfies the specified value.
- (4) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (5) Enter the data: XXh to page: D, address: 30.
- (6) Press the PAUSE button to write data.

[G Contrast Adjustment]

Condition:

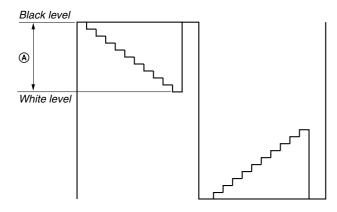
Input signal	10 step signal, 1 Vp-p (White: 100%)
Measurement point	RG-A01 board CN803 pin ②
Measuring equipment	Oscilloscope
Adjustment page	D
Adjustment address	14
Specified value	2.4 ± 0.1 Vp-p

Connection:



Adjustment Procedure:

- (1) Connect an oscilloscope to the CN803 pin ② (G OUT) and pin ① (GND) on the RG-A01 board.
- (2) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (3) On page: D, address: 14, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the (a) level of waveform on the oscilloscope satisfies the specified value.



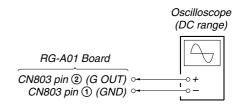
Adjustment and Connection Location: RG-A01 board (see page 3-14)

[G Brightness Adjustment]

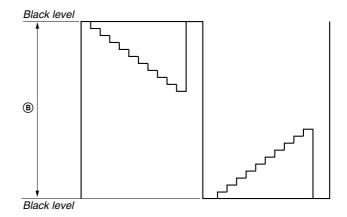
Condition:

Input signal	10 step signal, 1 Vp-p (White: 100%)
Measurement point	RG-A01 board CN803 pin ②
Measuring equipment	Oscilloscope
Adjustment page	D
Adjustment address	13
Specified value	8.4 ± 0.1 Vp-p

Connection:



- (1) Connect an oscilloscope to the CN803 pin ② (G OUT) and pin ① (GND) on the RG-A01 board.
- (2) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (3) On page: D, address: 13, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the (B) level of waveform on the oscilloscope satisfies the specified value.



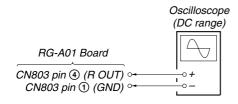
Adjustment and Connection Location: RG-A01 board (see page 3-14)

[R Contrast Adjustment]

Condition:

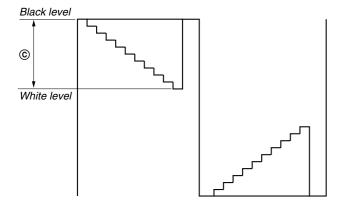
Input signal	10 step signal, 1 Vp-p (White: 100%)
Measurement point	RG-A01 board CN803 pin 4
Measuring equipment	Oscilloscope
Adjustment page	D
Adjustment address	1A
Specified value	2.4 ± 0.1 Vp-p

Connection:



Adjustment Procedure:

- (1) Connect an oscilloscope to the CN803 pin **(4)** (R OUT) and pin **(1)** (GND) on the RG-A01 board.
- (2) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (3) On page: D, address: 1A, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the © level of waveform on the oscilloscope satisfies the specified value.



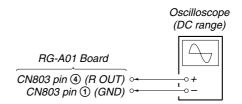
Adjustment and Connection Location: RG-A01 board (see page 3-14)

[R Brightness Adjustment]

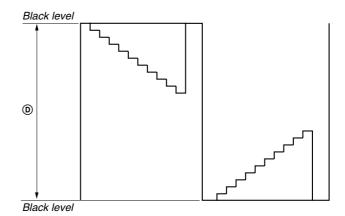
Condition:

Input signal	10 step signal, 1 Vp-p (White: 100%)
Measurement point	RG-A01 board CN803 pin 4
Measuring equipment	Oscilloscope
Adjustment page	D
Adjustment address	15
Specified value	$8.4 \pm 0.1 \text{ Vp-p}$

Connection:



- (1) Connect an oscilloscope to the CN803 pin **(4)** (R OUT) and pin **(1)** (GND) on the RG-A01 board.
- (2) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (3) On page: D, address: 15, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the ① level of waveform on the oscilloscope satisfies the specified value.



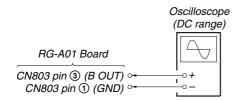
Adjustment and Connection Location: RG-A01 board (see page 3-14)

[B Contrast Adjustment]

Condition:

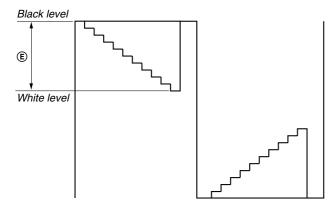
Input signal	10 step signal, 1 Vp-p (White: 100%)
Measurement point	RG-A01 board CN803 pin 3
Measuring equipment	Oscilloscope
Adjustment page	D
Adjustment address	1B
Specified value	2.4 ± 0.1 Vp-p

Connection:



Adjustment Procedure:

- (1) Connect an oscilloscope to the CN803 pin ③ (B OUT) and pin ① (GND) on the RG-A01 board.
- (2) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (3) On page: D, address: 1B, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the (a) level of waveform on the oscilloscope satisfies the specified value.



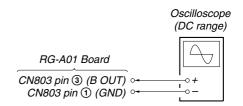
Adjustment and Connection Location: RG-A01 board (see page 3-14)

[B Brightness Adjustment]

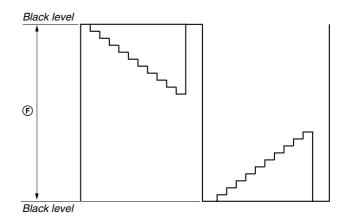
Condition:

Input signal	10 step signal, 1 Vp-p (White:100%)
Measurement point	RG-A01 board CN803 pin 3
Measuring equipment	Oscilloscope
Adjustment page	D
Adjustment address	16
Specified value	$8.4 \pm 0.1 \text{ Vp-p}$

Connection:



- (1) Connect an oscilloscope to the CN803 pin ③ (B OUT) and pin ① (GND) on the RG-A01 board.
- (2) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (3) On page: D, address: 16, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the (F) level of waveform on the oscilloscope satisfies the specified value.



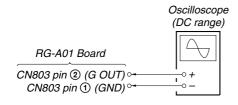
Adjustment and Connection Location: RG-A01 board (see page 3-14)

[Color Adjustment]

Condition:

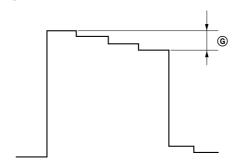
Input signal	Color bar signal (White: 75%)
Measurement point	RG-A01 board CN803 pin ②
Measuring equipment	Oscilloscope
Adjustment page	D
Adjustment address	12
Specified value	0 ± 0.05 Vp-p

Connection:



Adjustment Procedure:

- (1) Connect a oscilloscope to the CN803 pin ② (G OUT) and pin ① (GND) on the RG-A01 board.
- (2) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (3) On page: D, address: 12, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that the (a) level of waveform on the oscilloscope satisfies the specified value.



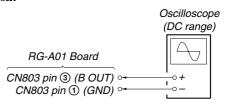
Adjustment and Connection Location: RG-A01 board (see page 3-14)

[Burst Cleaning Level Adjustment]

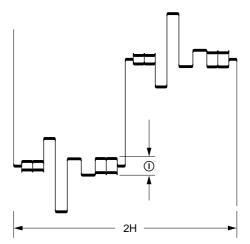
Condition:

Input signal	Anti-pal signal (Anti-pal signal is included in special color-bar signal and so on.)
Measurement point	RG-A01 board CN803 pin 3
Measuring equipment	Oscilloscope
Adjustment part	RV911 (DL-A01 board)
Specified value	Less than 50 mV

Connection:



- (1) Connect an oscilloscope to the CN803 pin ③ (B OUT) and pin ① (GND) on the RG-A01 board.
- (2) Adjust RV911 (DL-A01 board) so that the ① level (B-Y,-(B-Y) part) of waveform on the oscilloscope becomes the minimum and also satisfies the specified value.



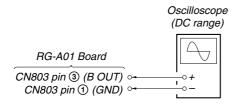
Adjustment and Connection Location: RG-A01 and DL-A01 boards (see page 3-14)

[Burst Cleaning Phase Adjustment]

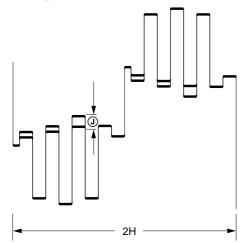
Condition:

Input signal	Color bar signal
Measurement point	RG-A01 board CN803 pin 3
Measuring equipment	Oscilloscope
Adjustment part	CT911 (DL-A01 board)
Specified value	Less than 50 mV

Connection:



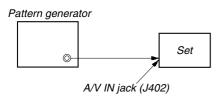
- (1) Connect an oscilloscope to the CN803 pin ③ (B OUT) and pin ① (GND) on the RG-A01 board.
- (2) Adjust CT911 (DL-A01 board) so that the ① level of waveform on the oscilloscope becomes the minimum and also satisfies the specified value.



Adjustment and Connection Location: RG-A01 and DL-A01 boards (see page 3-14)

OPTICS BLOCK

• To adjust the optics block, connect a pattern generator as shown below. (For details, see page 3-1)



- Set the picture control standard. (See page 3-4)
- Make the following adjustment in the given order.

[V.COM R Adjustment]

• Make this adjustment through a visual check.

Note: Before this adjustment, the Contrast Adjustment must be finished. **Condition:**

Input signal	Monoscope signal
Measurement point	Right LCD screen
Measuring equipment	Visual check
Adjustment page	D
Adjustment address	28

Adjustment Procedure:

- (1) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (2) On page: D, address: 28, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that horizontal streaks do not wobble on the display when looking into the right finder.

[V.COM L Adjustment]

• Make this adjustment through a visual check.

Note: Before this adjustment, the Contrast Adjustment must be finished. **Condition:**

Input signal	Monoscope signal
Measurement point	Left LCD screen
Measuring equipment	Visual check
Adjustment page	D
Adjustment address	29

Adjustment Procedure:

- (1) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (2) On page: D, address: 29, change data with the PLAY and STOP buttons and press the PAUSE button to write data so that horizontal streaks do not wobble on the display when looking into the left finder.

[LED Back Light Brightness Balance Adjustment]

Make this adjustment through a visual check.

Condition:

Input signal	White: 100% signal
Measurement point	LCD screen
Measuring equipment	Visual check
Adjustment page	D
Adjustment address	2A (right) or 2B (left)

Adjustment Procedure:

- (1) Set (or confirm) data: 01 to page: 1, address: 00.
- (2) Page: D, address: 2A (right) or 2B (left)
 Change the address data of higher brightness with the PLAY
 and STOP buttons and press the PAUSE button to write data
 so that the brightness becomes same as the lower LED back
 light brightness when looking into the left and right finders.

[White Balance Adjustment]

• Make this adjustment through a visual check.

Condition:

Input signal	10 step signal, 1 Vp-p (White: 100%)
Measurement point	LCD screen
Measuring equipment	Visual check
Adjustment page	D
Adjustment address	15, 16

Adjustment Procedure:

- (1) Set (or confirm) data: 01 to page: 1, address: 00. (Cancel D page protect)
- (2) Page: D, address: 15, 16

Change data at these two addresses with the PLAY and STOP buttons and press the PAUSE button to write data so that the display achromatic gray gradation (not colored in blue or red) when looking into the left and right finders.

POWER SUPPLY BLOCK

[Battery Down Adjustment]

Preparation:

VOL control (RV201) : MaximumAVLS switch (S201) : OFF

• BRIGHT control (RV301): Center (click position)

Condition:

Signal	VIDEO IN: Color bar AUDIO IN L: 1 kHz, –20 dBs AUDIO IN R: 1 kHz, –20 dBs	
Measurement point	Displayed data on adj. remote commander	
Measuring equipment		
Adjustment page	D	
Adjustment address	04, 05, 06, 07, 08, 09	
Specified value	$ZZh = 60h \pm 0Ah$	

Connection:

Referring to Fig. 3-5, connect the following equipment.

- (1) Connect the regulated power supply and a digital voltmeter to the battery terminal.
- Connect the adjusting remote commander to the CN305 on YM-A01 board.
- (3) Connect a pattern generator to the VIDEO IN terminal.
- (4) Connect an audio SG to the AUDIO IN terminal.

Adjustment Procedure:

- (1) Adjust the output voltage of regulated power supply so that the battery terminal voltage is 6.07 ± 0.02 Vdc.
- (2) Turn ON the POWER switch on the set.
- (3) Set data: 01 to page: 2, address: 00.
- (4) Read data: ZZh on page: 2, address: 2B.
- (5) Confirm that the data: ZZh satisfies the specification value.
- (6) Set data: 01 to page: 1, address: 00. (Cancel D page protect)
- (7) Using the following formulas (calculation of hexadecimal numbers), calculate the adjustment data and enter them to respective adjustment addresses.

(Refer to 5. Data Processing on page 3-3)

 $\begin{array}{lll} Address: 08 & D_{08} = ZZh \\ Address: 07 & D_{07} = ZZh + 07h \\ Address: 06 & D_{06} = ZZh + 15h \\ Address: 05 & D_{05} = ZZh + 18h \\ Address: 04 & D_{04} = ZZh + 1Dh \\ Address: 09 & D_{09} = 08h \\ \end{array}$

Note: After setting each data, be sure to press the PAUSE button on the adjusting remote commander.

- (8) Set data: 00 to page: 2, address: 00.
- (9) Set data: 00 to page: 1, address: 00.
 - (D page protect)

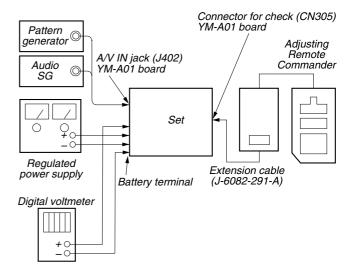


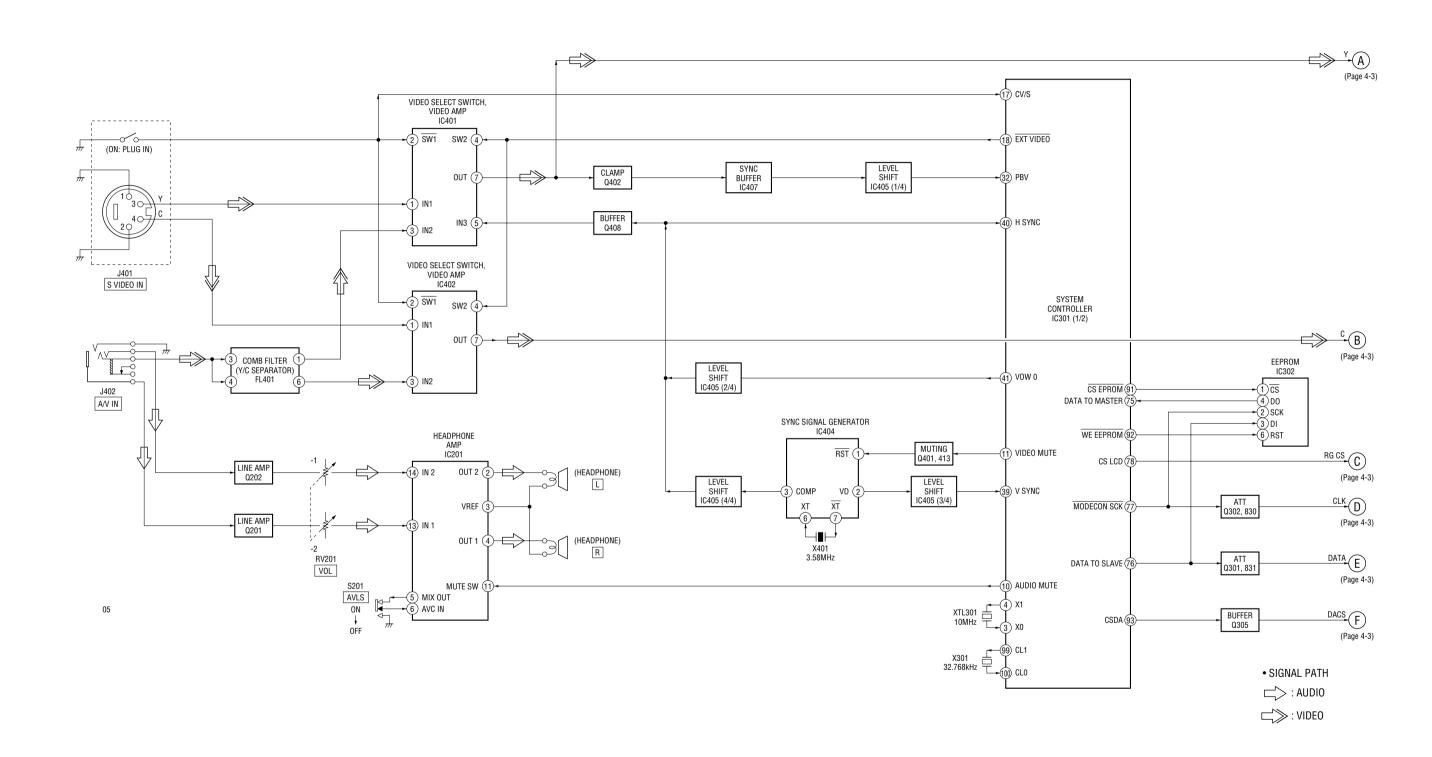
Fig. 3-5

Adjustment and Connection Location: Connect adjusting remote commander - YM-A01 Board (Side A) -CN305 S VIDEO IN jack (J401) A/V IN Brightness Volume jack control control (J402) (RV201) (RV301) AVLS switch (S201) - RG-A01 Board (Side B) -- DL-A01 Board (Side A) -IC801 CN803 X801 Burst Cleaning Phase Adjustment RV911 Burst Cleaning Level Adjustment For LCD block adjustment connector - DD-A02 Board (Side A) -J101 CN101 DC IN 9 V jack То battery terminal Confidential

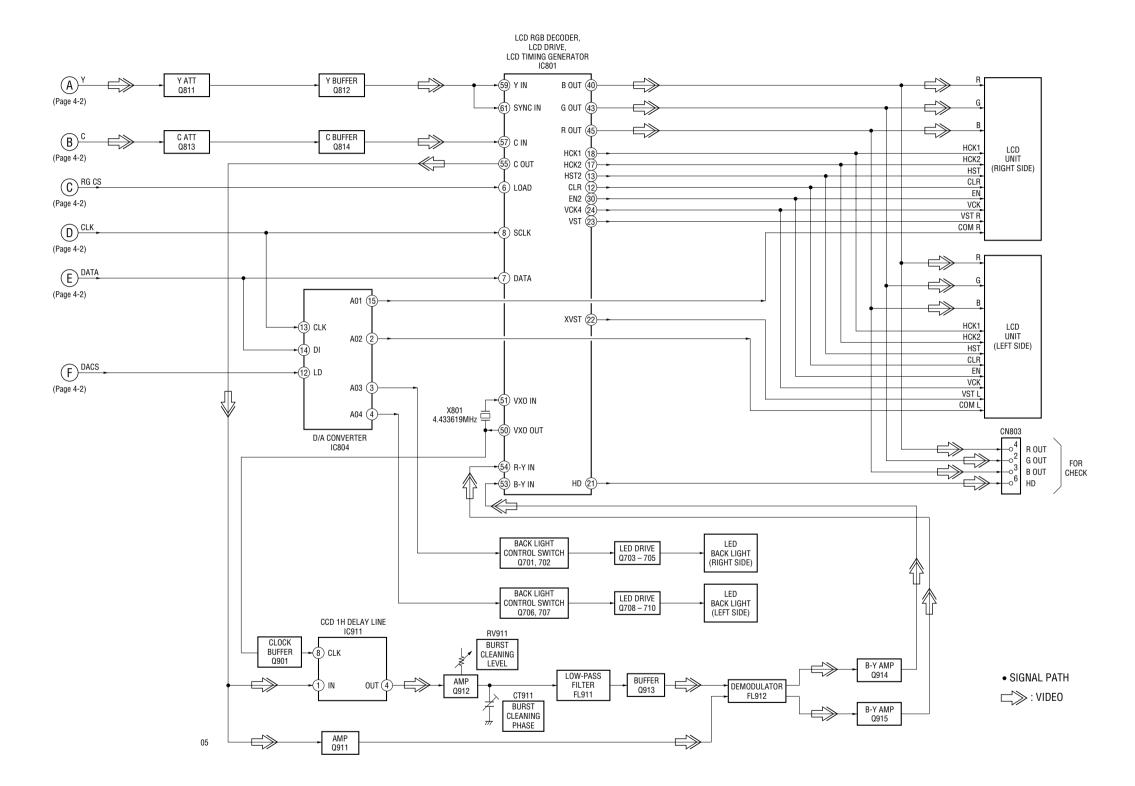
3-14 (END)

PLM-A35E (AEP)

4-1. BLOCK DIAGRAM - AUDIO/VIDEO Section -



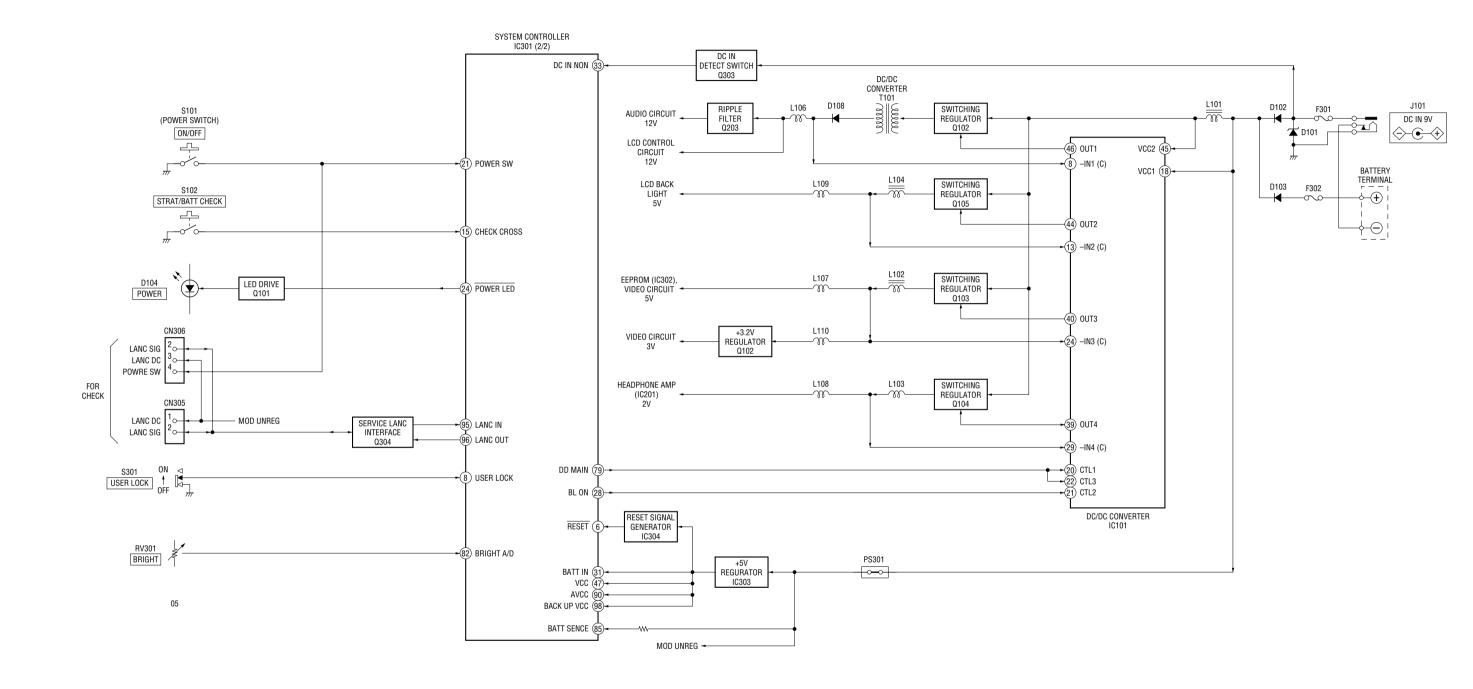
4-2. BLOCK DIAGRAM - LCD Section -



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PLM-A35E (AEP) 4-3

4-3. BLOCK DIAGRAM - KEY CONTROL/POWER SUPPLY Section -



4-5

4-4. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Board:

• • parts extracted from the component side.

• — : parts extracted from the conductor side.

• : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

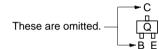
Pattern face side: Parts on the pattern face side seen from the pattern face are indicated. (Side B)

Parts face side: Parts on the parts face side seen from the parts face are indicated. (Side A)

• YM-A01, RG-A01, DL-A01, HP-A01, and DD-A02 boards are multi-layer printed board. However, the patterns of intermediate-layer have not been

• Indication of transistor

included in the diagram.



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- \bullet All resistors are in Ω and $^{1}\!/_{\!4}\,W$ or less unless otherwise specified.
- \(\triangle \) : internal component.
 \(\triangle \) : panel designation.

Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

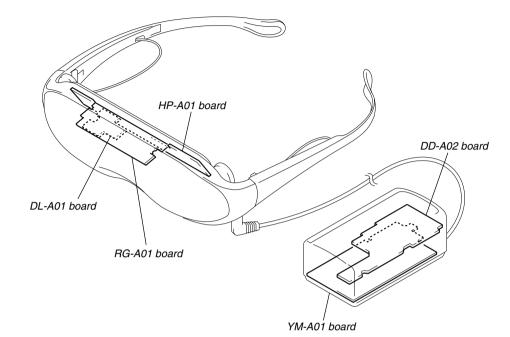
- **B** + : B+ Line.
- Power voltage is dc 9 V and fed with regulated dc power supply from external power voltage jack.
- Voltages and waveforms are dc with respect to ground in color-bar signal input.

no mark : VIDEO MODE

- Voltages are taken with a VOM (Input impedance 10 $M\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

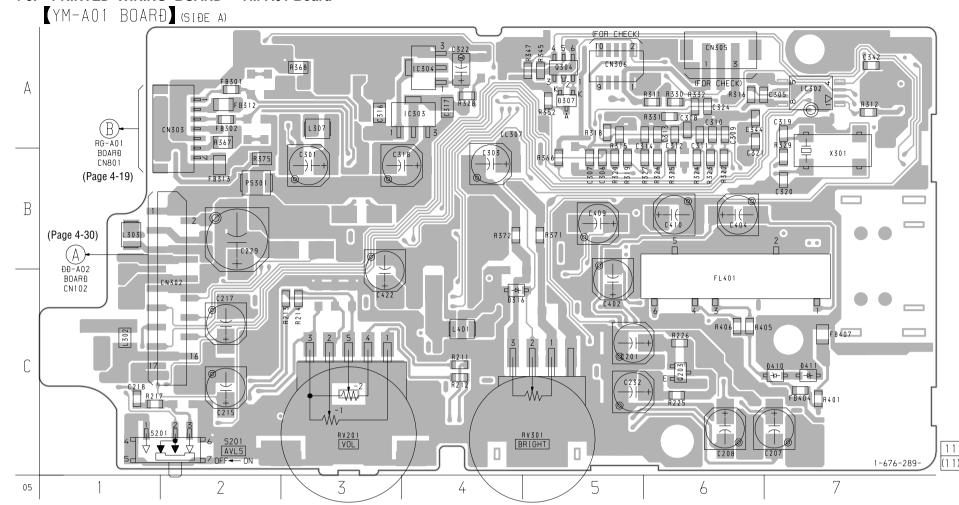
: AUDIO ➾ : VIDEO

• Circuit Boards Location



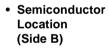
PLM-A35E (AEP) 4-7 4-8

4-5. PRINTED WIRING BOARD -YM-A01 Board -



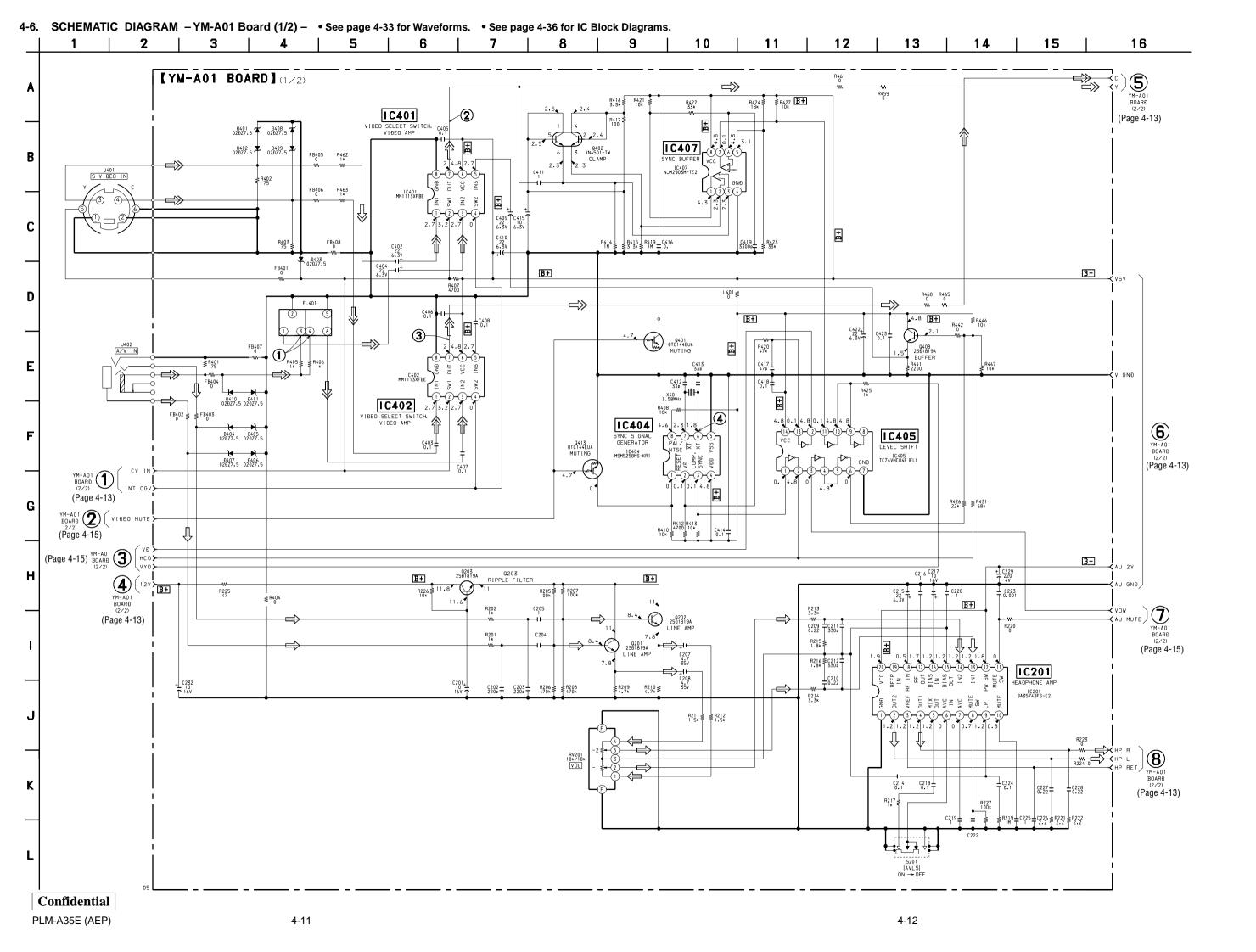
Semiconductor Location (Side A)

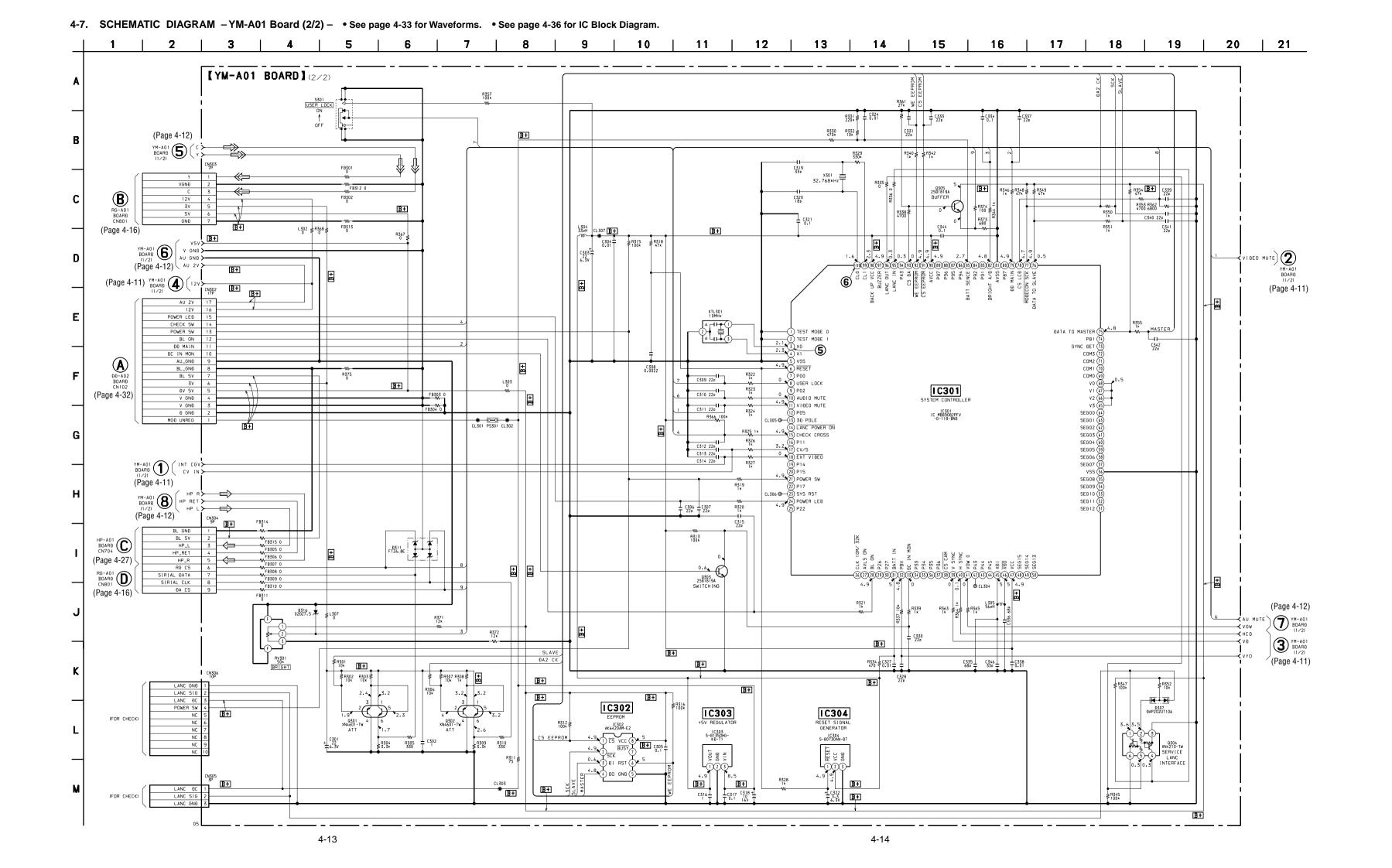
Ref. No.	Location
D307	A-5
D316	C-4
D410	C-7
D411	C-7
IC302	A-7
IC303	A-4
IC304	A-4
Q203	C-6
Q304	A-5



Ref. No.	Location
D311 D401 D402 D403 D404 D405 D406 D407 D408 D409	A-2 B-7 C-7 B-7 C-6 C-7 C-7 C-7
IC201 IC301 IC401 IC402 IC404 IC405 IC407	C-2 A-6 C-5 C-6 C-4 C-4 C-3
Q201 Q202 Q301 Q302 Q303 Q305 Q401 Q402 Q408 Q413	C-6 C-6 A-3 A-3 A-4 A-7 B-4 C-4 B-3 B-4

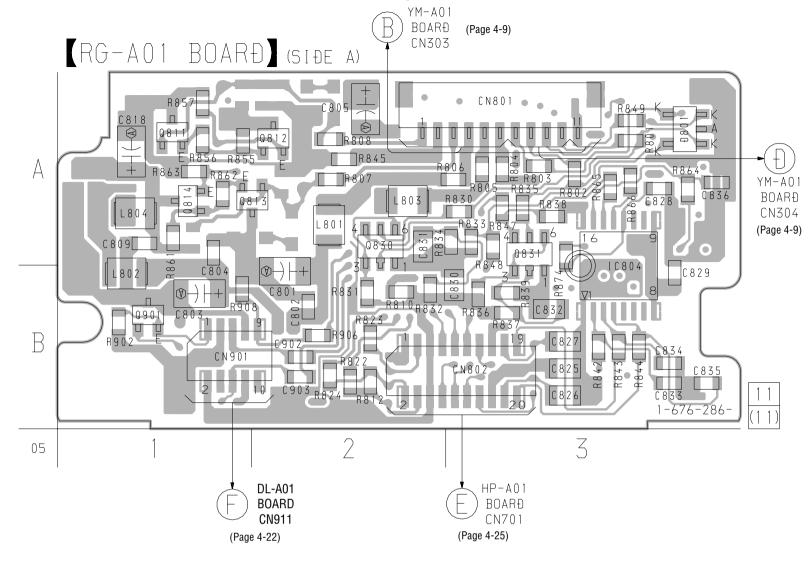
	YM-A01 BOAR	(SIĐE B)					J402
С	20 20 20 20 20 20 20 20	115 R216 1209 12209 12209	0 R417 C419 S301 USER LOCK OFF → ON C418		RZ RZ	R208 R210 B4	FB402 Q A/V IN A/V IN
	[227]	10 0225 20 10 0225 90 10 025	\$30 P 5 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	10405 10405 10405 10405	R4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1C402 C405 G 8 S R463	1408 B409 R403 4 0 0 2
В	(Page 4-25)	FB315 FB305	R446 R447 R461 R460 R441 R465	0413 (413 X4	52	XTL301	9401 9401 9401 9401 9401 9401 9401 9401
	HP-A01 BOARD CN704	CN304	R441 R465	304	327 C315 R321 C328 R337		R3/40
А	RG-A01 BOARD CN801 (Page 4-20)	FB309 FB309 FB310 FB310 FB310	C302 R3096	E 2 P313	R364 R365 R365 R365 R364 R365 R364 R365 R365 R365 R365 R365 R365 R365 R365	10301	R344 C334 C340 R348
05	1	2	3	4	5	6	7





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4-9. PRINTED WIRING BOARD - RG-A01 Board - • See page 4-8 for Circuit Boards Location.

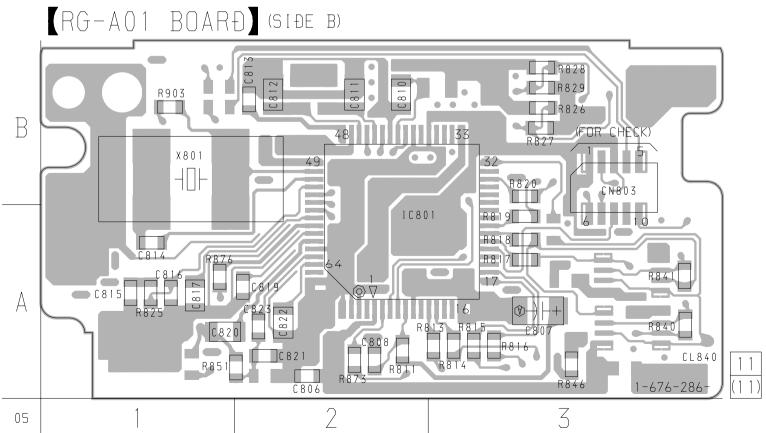


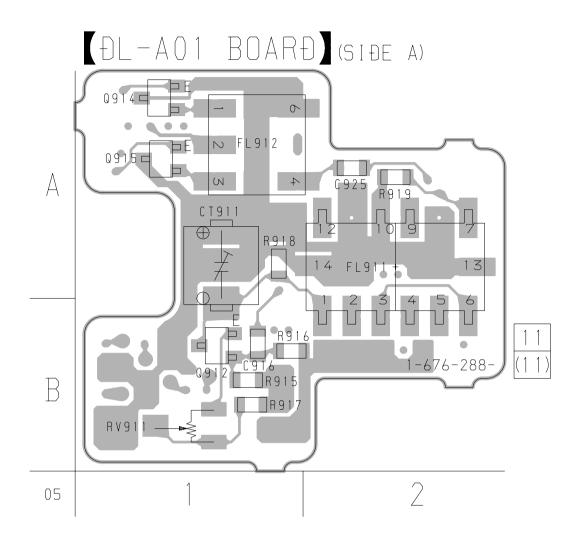
Semiconductor Location (Side A)

Ref. No.	Location
D801	A-3
IC804	A-3
Q811 Q812 Q813 Q814 Q830 Q831 Q901	A-1 A-2 A-1 A-1 A-2 A-3 B-1

Semiconductor Location (Side B)

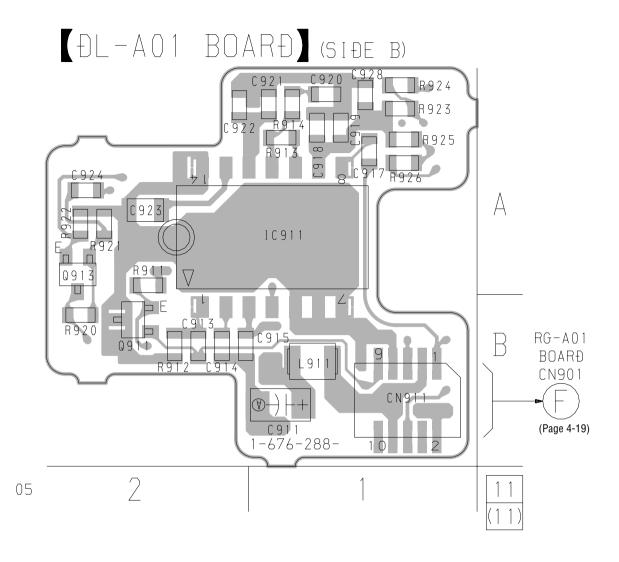
Ref. No.	Location	
IC801	A-2	





 Semiconductor Location (Side A)

Ref. No.	Location
Q912	B-1
Q914	A-1
Q915	A-1

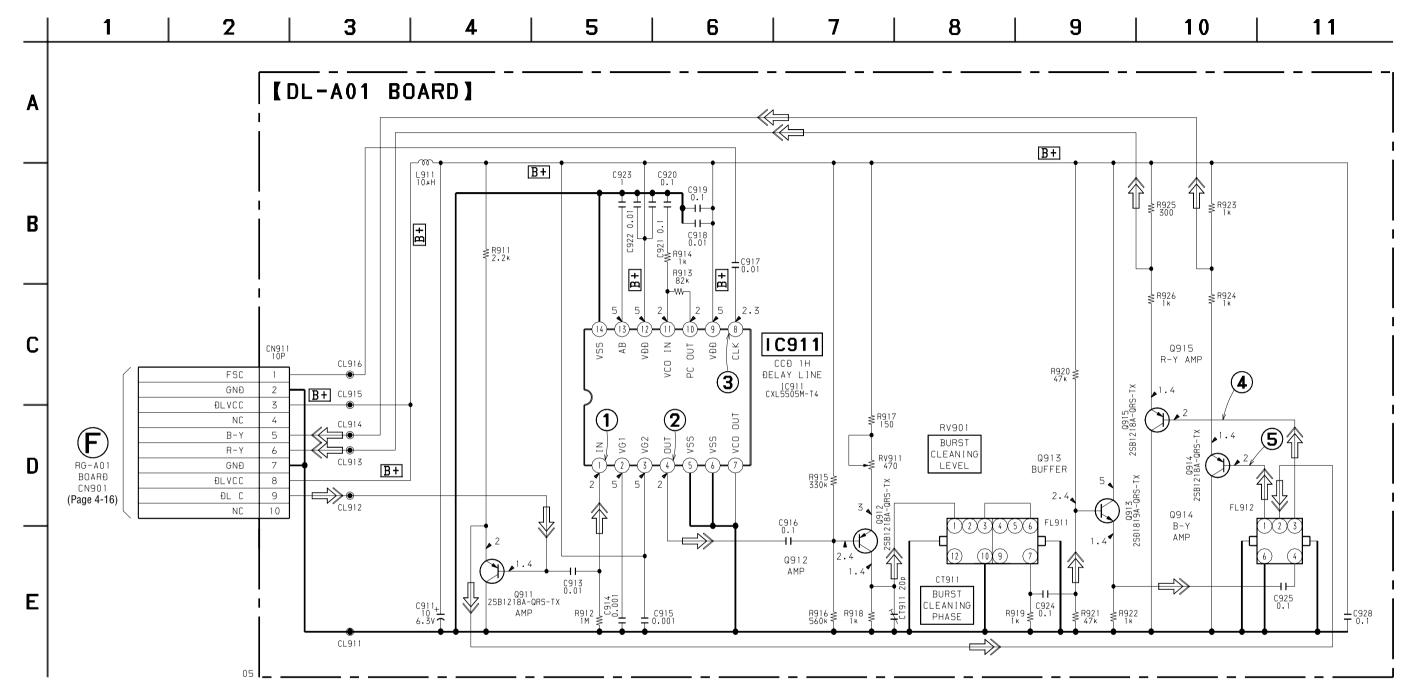


 Semiconductor Location (Side B)

Ref. No.	Location
IC911	A-1
Q911	B-2
Q913	A-2

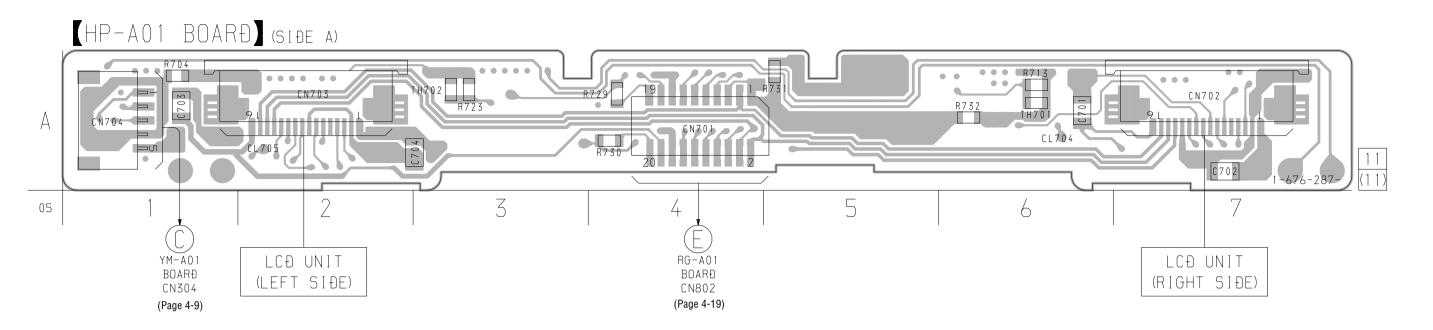
Confidential

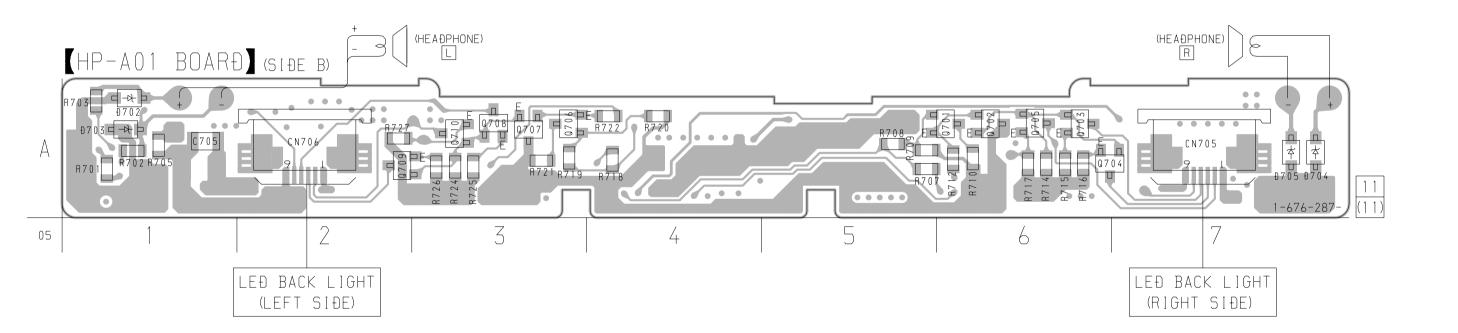
PLM-A35E (AEP) 4-21



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4-12. PRINTED WIRING BOARD - HP-A01 Board - • See page 4-8 for Circuit Boards Location.



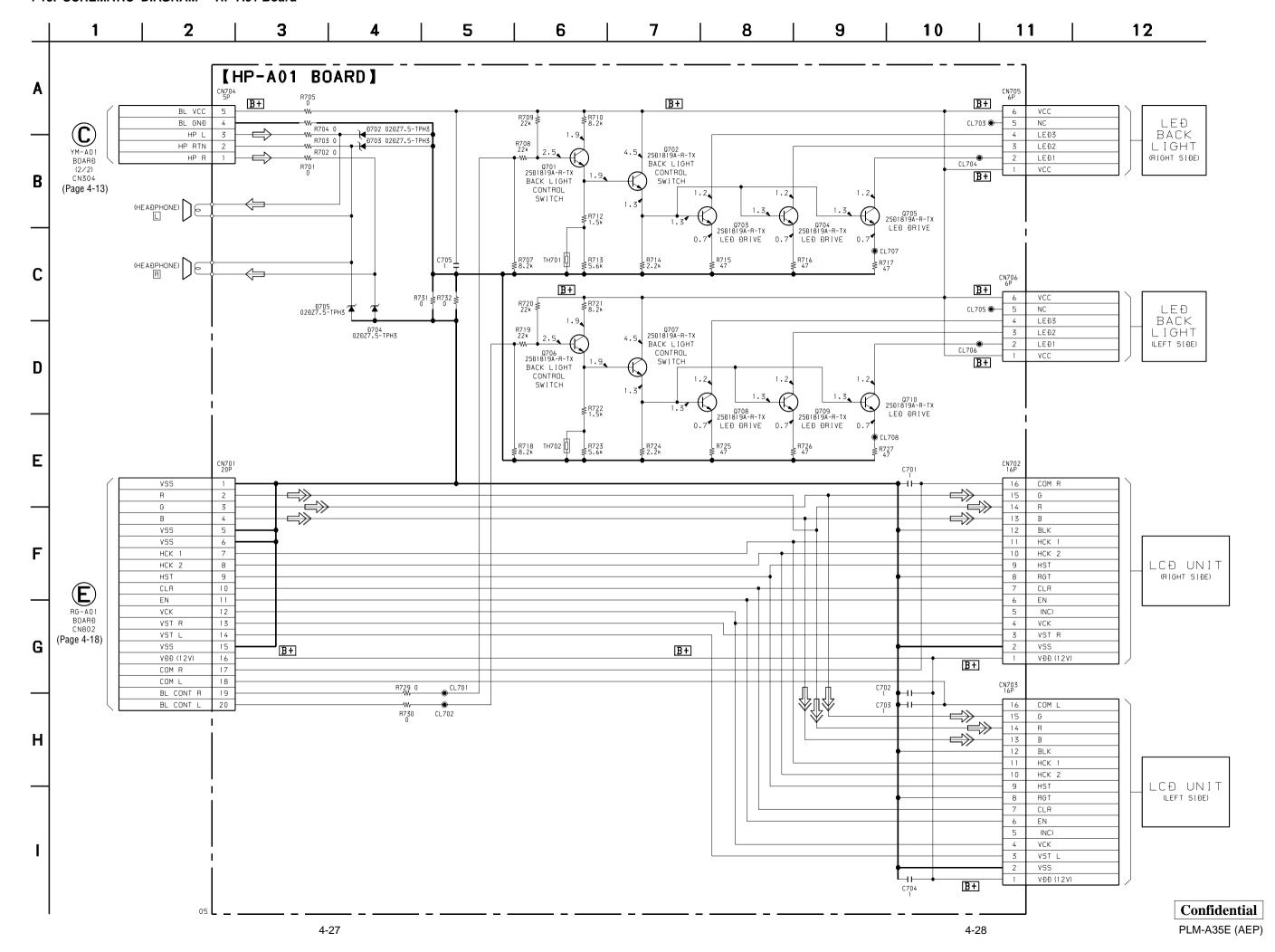


• Semiconductor Location (Side B)

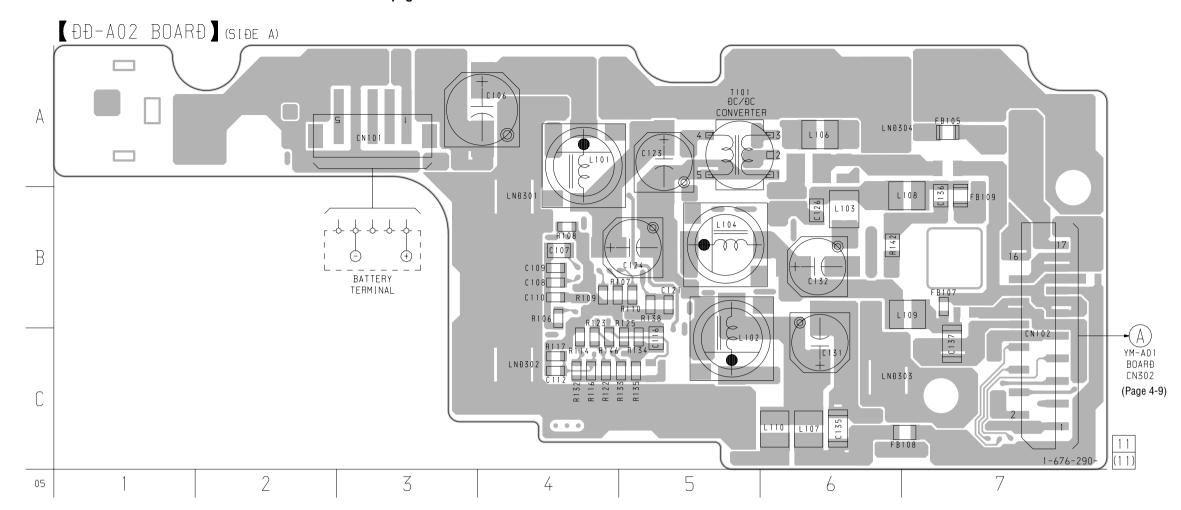
Commoditation Location (Glac B)					
Ref. No.	Location	Ref. No.	Location		
D702	A-1	Q704	A-6		
D703	A-1	Q705	A-6		
D704	A-7	Q706	A-3		
D705	A-7	Q707	A-3		
		Q708	A-3		
Q701	A-6	Q709	A-2		
Q702	A-6	Q710	A-3		
Q703	A-6				

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PLM-A35E (AEP) 4-25

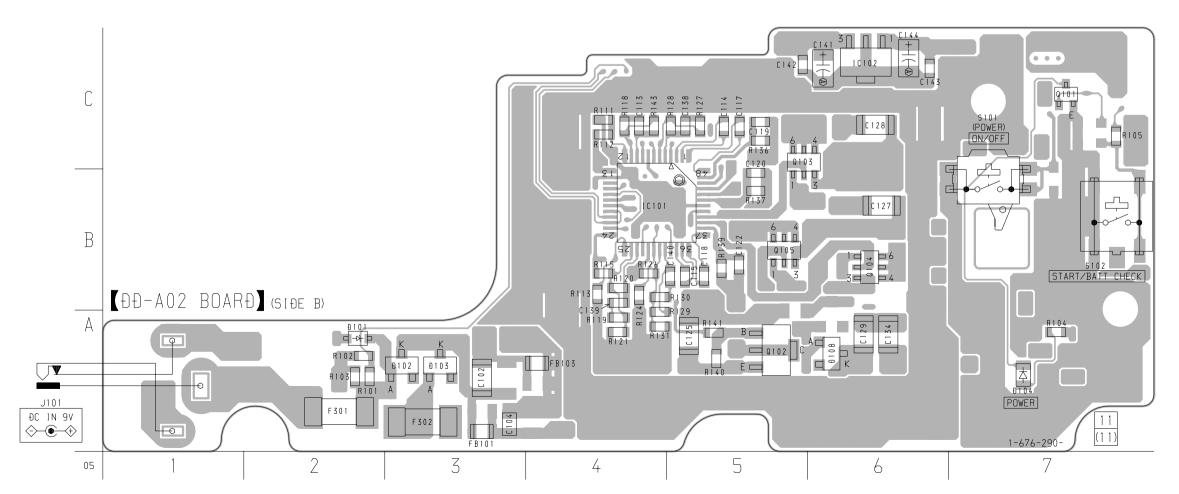


4-14. PRINTED WIRING BOARD - DD-A02 Board - • See page 4-8 for Circuit Boards Location.



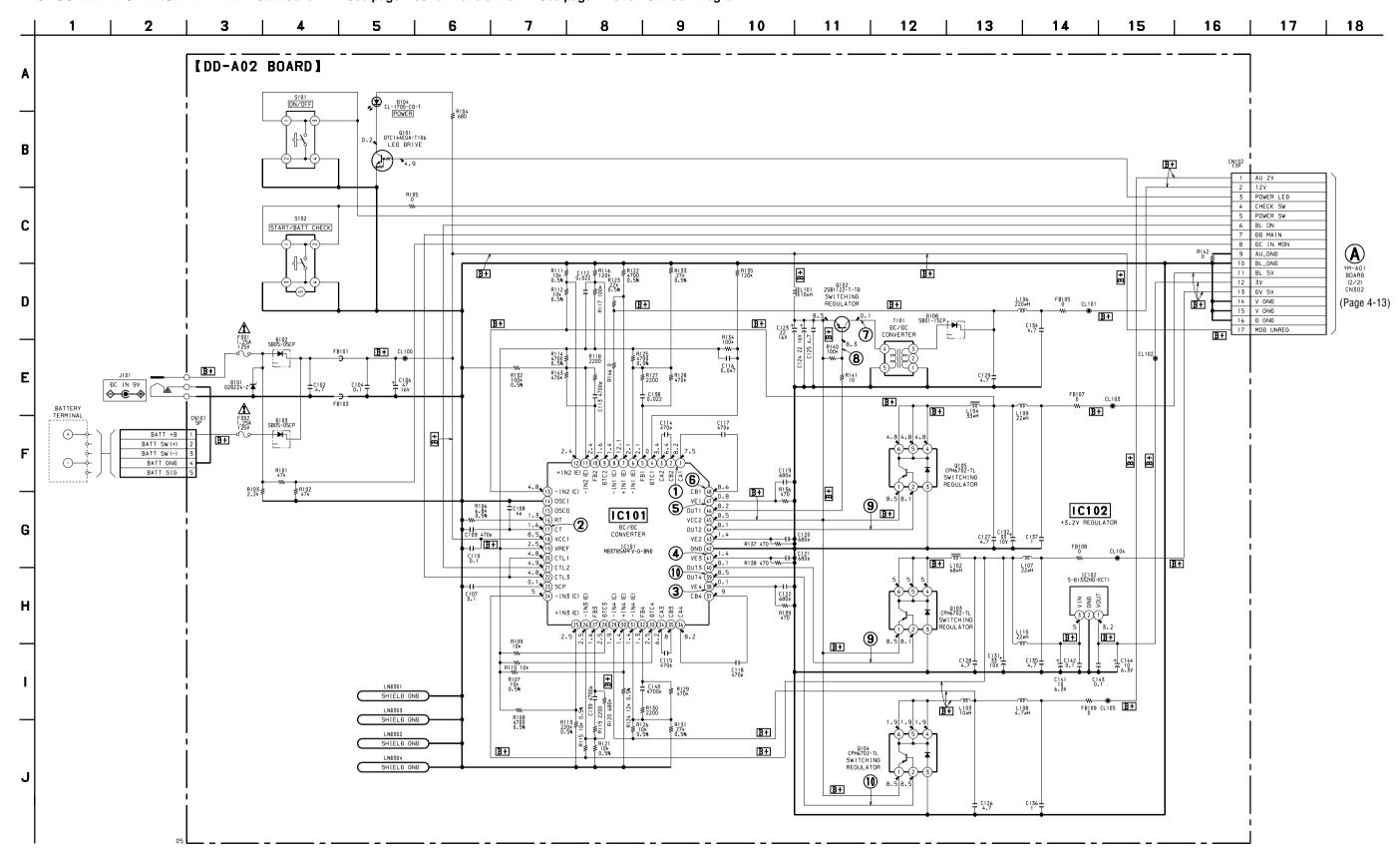
Semiconductor Location (Side B)

(Side b	·)
Ref. No.	Location
D101	A-2
D102	A-3
D103	A-3
D104	A-7
D108	A-6
IC101	B-4
IC102	C-6
Q101	C-7
Q102	A-5
Q103	C-5
Q104	B-6
Q105	B-5



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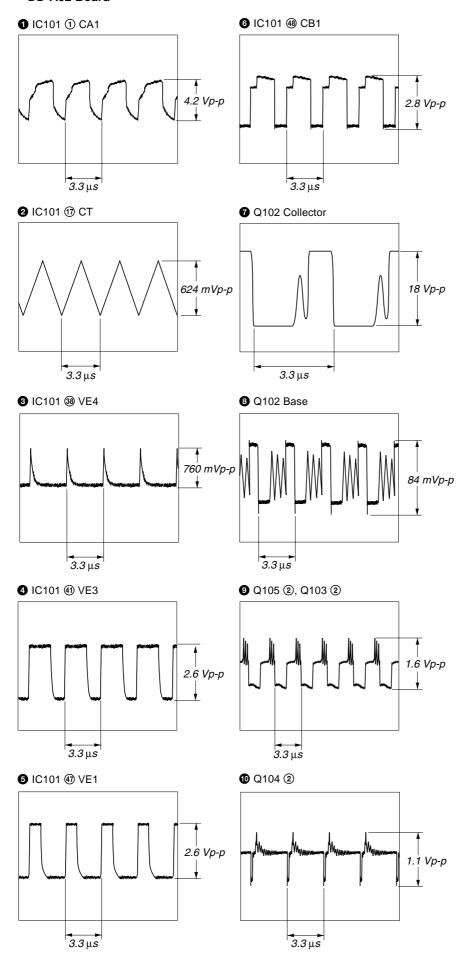
Note: The components identified by mark ∆ or dotted line with mark ∆ are critical for safety. Replace only with part number specified.

Waveforms -YM-A01 Board -- DL-A01 Board -- RG-A01 Board -6 IC801 5 VXO IN 1 IC801 (9) YIN 1 FL401 3, 4 6 IC301 (11) CL0 1 IC911 1 IN 1 Q811 Base 416 mVp-p 840 mVp-p 688 mVp-p 1.9 Vp-p Н Н Н 4.433619 MHz 32.768 kHz 7 IC801 53 B-Y IN 2 IC401 7 OUT 2 IC911 4 OUT 2 Q813 Base 840 mVp-p 308 mVp-p 700 mVp-p Н Н Н Н 3 IC402 7 OUT 3 IC801 40 B OUT 3 IC801 54 R-Y IN **3** IC911 **8** CLK 8.8 Vp-p 536 mVp-p Н Н Η 4.433619 MHz 9 IC801 5 COUT 4 IC404 6 XT 4 IC801 4 G OUT **4** Q915 Base 408 mVp-p 8.8 Vp-p Η Н 3.58 MHz **5** IC801 **4** R OUT 1 IC801 (5) CIN **5** IC301 ③ X0 **6** Q914 Base 336 mVp-p 8.8 Vp-p 4.2 Vp-p Н Н Н 10 MHz

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PLM-A35E (AEP) 4-33

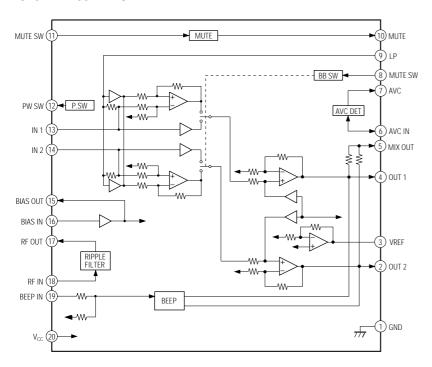
- DD-A02 Board -



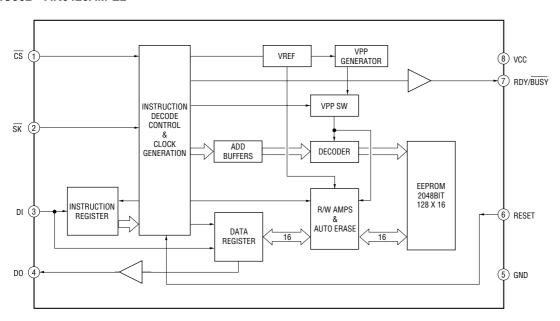
• IC Block Diagrams

-YM-A01 Board -

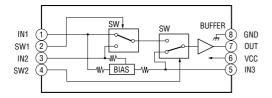
IC201 BA3574BFS-E2



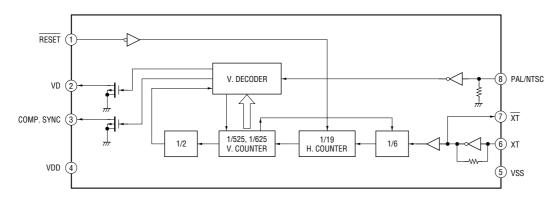
IC302 AK6420AM-E2



IC401, 402 MM1113XFBE

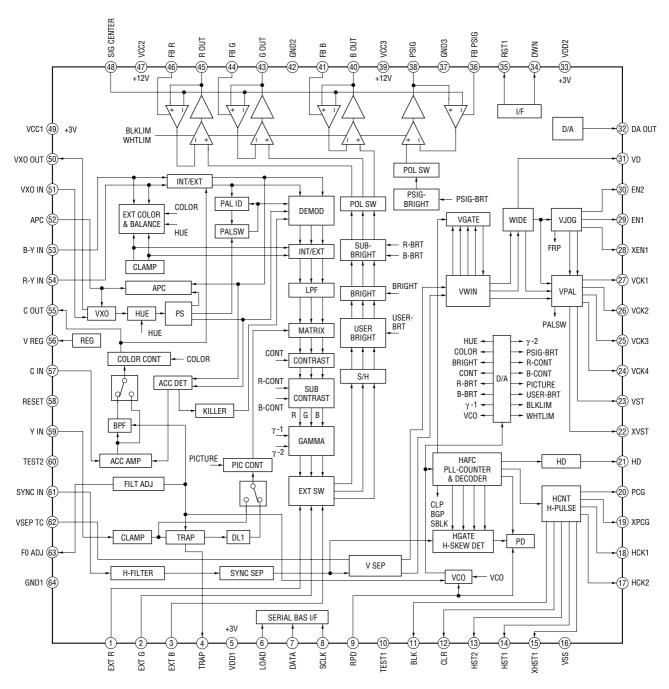


IC404 MSM5258MS-KR1

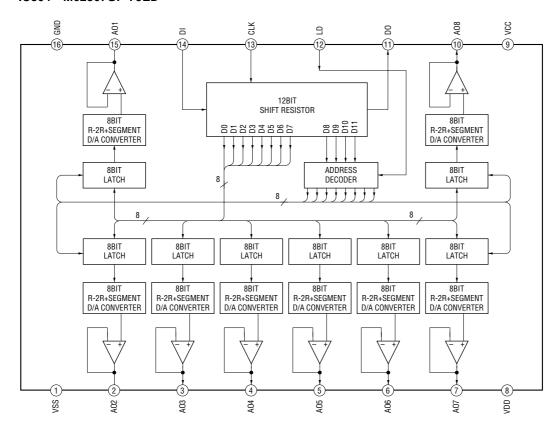


- RG-A01 Board -

IC801 CXA3017R-T6

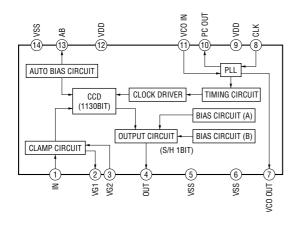


IC804 M62367GP-75ED



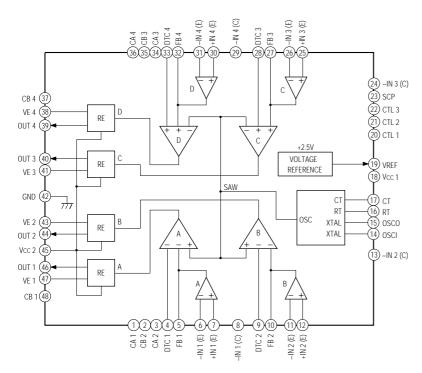
- DL-A01 Board -

IC911 CXL5505M-T4



- DD-A02 Board -

IC101 MB3785APFV-G-BND-ER



4-16. IC PIN FUNCTION DESCRIPTION

• YM-A01 BOARD IC301 MB89082PFV-G-118-BND (SYSTEM CONTROLLER)

Dia Na	Din Nome	1/0	Description
Pin No.	Pin Name	I/O	Description
1	TEST MODE 0	I	Setting terminal for the test mode (Normally: fixed at "L")
2	TEST MODE 1	I	Setting terminal for the test mode (Normally: fixed at "L")
3	X0	I	Main system clock input terminal (10MHz)
4	X1	О	Main system clock output terminal (10MHz)
5	VSS		Ground terminal
6	RESET	I	System reset signal input from the reset signal generator (IC304) "L" reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
7	P00		Not used (open)
8	USER LOCK	I	USER LOCK switch (S301) input terminal "H": user lock on
9	P02		Not used (open)
10	AUDIO MUTE	О	Audio line muting control signal output terminal "H": muting on
11	VIDEO MUTE	O	Video muting control signal output terminal "H": muting on
12	P05	_	Not used (open)
13	3D MODE	О	3D mode selection signal output terminal "L": 3D mode "H": normal mode Not used (open)
14	LANC POWER ON	I	Power supply control input of the LANC "L": power on Not used (open)
15	CHECK CROSS	I	START/BATT CHECK switch (S102) input terminal
16	P11		Not used (open)
17	CV/S	I	Connection detect signal input of the S video in jack (J401) "L": connection
18	EXT VIDEO	О	External video signal output to the video select switch (IC401, 402)
19, 20	P14, P15		Not used (open)
21	POWER SW	I	ON/OFF (power) switch (S101) input terminal (toggle input) "L" is input when power is turned on/off
22	P17	_	Not used (open)
23	SYS RST	О	Reset signal output ternimal "L": reset Not used (open)
24	POWER LED	О	LED drive signal output of the POWER indicator (D104) "H": LED on
25	P22		Not used (open)
26	CLK 10M/32K	I	Selection input of the clock frequency "L": 32 kHz, "H": 10 MHz Not used (open)
27	AVLS ON	0	AVLS (Automatic Volume Limiter System) control signal output terminal "H": AVLS on Not used (open)
28	BL ON	0	Back light unit on/off control signal output to the DC/DC converter (IC101) "H": back light on
29, 30	P26, P27	_	Not used (open)
31	BATT IN	I	Power failure detection input terminal
32	PBV	I	Vertical sync reference signal input terminal
33	DC IN MON	I	DC IN detection input terminal "L": DC present
34 to 37	P33 to P36	_	Not used (open)
38	CS CAM	О	Chip select signal output terminal Not used (open)
39	V SYNC	I	Verticalsync signal input terminal
40	H SYNC	I	Horizontal sync signal input terminal
41	VOW 0	О	VOW signal output terminal
42 to 44	P43 to P45		Not used (open)
45	XDI	I	Clock signal input terminal
46	XDO	О	Clock signal output terminal
47	VCC		
		О	
		_	Power supply terminal (+5V) LCD segment drive signal output terminal Not used (open)

Pin No.	Pin Name	I/O	Description
56	VSS	_	Ground terminal
57 to 64	SEG07 to SEG00	О	LCD segment drive signal output terminal Not used (open)
65 to 68	V3 to V0	I	Bias voltage input for the LCD drive Not used
69 to 72	COM0 to COM3	О	LCD common drive signal output terminal Not used (open)
73	SYNC DET	I	Input terminal of check signal whether sync signal is present or not Not used (open)
74	P81	_	Not used (open)
75	DATA TO MASTER	I	Serial data input from the EEPROM (IC302)
76	DATA TO SLAVE	0	Serial data output to the EEPROM (IC302), LCD timing generator (IC801), and D/A converter (IC804)
77	MODECON SCK	0	Serial data transfer clock signal output to the EEPROM (IC302), LCD timing generator (IC801), and D/A converter (IC804)
78	CS LCD	О	Chip select signal output to the LCD timing generator (IC801)
79	DD MAIN	О	Main power supply control signal output to the DC/DC converter (IC101)
80	P87	_	Not used (open)
81	AVSS	_	Ground terminal (for A/D input)
82	BRIGHT A/D	I	Brightness control (RV301) input terminal
83, 84	P91, P92	_	Not used (open)
85	BATT SENCE	I	Input of battery capacity detection when rechargeable battery is used (A/D input)
86 to 89	P94 to P97		Not used (open)
90	AVCC		Power supply terminal (+5V) (for A/D input)
91	CS EEPROM	О	Chip select signal output to the EEPROM (IC302)
92	WE EEPROM	О	Data write enable signal output to the EEPROM (IC302)
93	CS DA	О	Chip select signal output to the D/A converter (IC804)
94	PA3	_	Not used (open)
95	LANC IN	I	LANC serial data input terminal (for check)
96	LANC OUT	О	LANC serial data output terminal (for check)
97	BUZZER	O	Buzzer sound output terminal Not used (open)
98	BACK UP VCC		Power supply terminal (+5V)
99	CL1	O	Sub system clock output terminal (32.768 kHz)
100	CL0	I	Sub system clock input terminal (32.768 kHz)

• RG-A01 BOARD IC801 CXA3017R-T6 (LCD RGB DECODER, LCD DRIVE, LCD TIMING GENERATOR)

Pin No.	Pin Name	I/O	Description
1	EXT R	I	External digital R signal input terminal Not used (fixed at "L")
2	EXT G	I	External digital G signal input terminal Not used (fixed at "L")
3	EXT B	I	External digital B signal input terminal Not used (fixed at "L")
4	TRAP	0	External trap connection terminal Not used (open)
5	VDD1		Power supply terminal (+3V) (digital system)
6	LOAD		Chip select signal input from the system controller (IC301)
7		I	
8	DATA SCLK	I	Serial data input from the system controller (IC301) Serial data transfer clock signal input from the system controller (IC301)
9			
	RPD	0	Phase comparator output terminal
10	TEST1	I	Input terminal for the test Not used (fixed at "L")
11	BLK	0	Blanking pulse signal output terminal Not used (open)
12	CLR	0	Clear pulse signal output to the left and right LCD units
13	HST2	0	Horizontal start pulse 2 signal output to the left and right LCD units
14	HST1	О	Horizontal start pulse 1 signal output terminal Not used (open)
15	XHST1	О	Horizontal start pulse 1 signal output terminal (reverse polarity of the HST1 (4) pin) Not used (open)
16	VSS		Ground terminal (digital system)
17	HCK2	О	Horizontal clock pulse 2 signal output to the left and right LCD units
18	HCK1	О	Horizontal clock pulse 1 signal output to the left and right LCD units
19	XPCG	О	Pre charge pulse signal output terminal (reverse polarity of the PCG @ pin) Not used (open)
20	PCG	О	Pre charge pulse signal output terminal Not used (open)
21	HD	О	Horizontal drive pulse signal output terminal
22	XVST	О	Vertical start pulse signal output to the left LCD unit (reverse polarity of the VST 2 pin)
23	VST	О	Vertical start pulse signal output to the right LCD unit
24	VCK4	О	Vertical clock pulse 4 signal output to the left and right LCD units
25	VCK3	О	Vertical clock pulse 3 signal output terminal Not used (open)
26	VCK2	О	Vertical clock pulse 2 signal output terminal Not used (open)
27	VCK1	О	Vertical clock pulse 1 signal output terminal Not used (open)
28	XEN1	О	Enable pulse 1 signal output terminal (reverse polarity of the EN1 29 pin) Not used (open)
29	EN1	О	Enable pulse 1 signal output terminal Not used (open)
30	EN2	О	Enable pulse 2 signal output to the left and right LCD units
31	VD	О	Vertical drive pulse signal output terminal Not used (open)
32	DA OUT	О	DAC signal output terminal Not used (open)
33	VDD2		Power supply terminal (+3V) (digital system)
34	DWN	О	Up/down scan inversion switching signal output terminal (open collector output) Not used (open)
35	RGT1	О	Left/right scan inversion switching signal output terminal (open collector output) Not used (open)
36	FB PSIG	I	Capacitor connection terminal for DC voltage feedback circuit of PSIG signal (pin ®) Not used (open)
37	GND3		Ground terminal (analog system) for PSIG
38	PSIG	О	PSIG signal output terminal Not used (open)
39	VCC3		Power supply terminal (+12V) (analog system) for PSIG Not used
40	B OUT	О	B signal (primary color signal) output to the left and right LCD units
41	FB B	I	Capacitor connection terminal for DC voltage feedback circuit of B signal (pin (49))
42	GND2	_	Ground terminal (analog system)
		1	

Pin No.	Pin Name	I/O	Description
43	G OUT	О	G signal (primary color signal) output to the left and right LCD units
44	FB G	I	Capacitor connection terminal for DC voltage feedback circuit of G signal (pin (3))
45	R OUT	О	R signal (primary color signal) output to the left and right LCD units
46	FB R	I	Capacitor connection terminal for DC voltage feedback circuit of R signal (pin (5))
47	VCC2	_	Power supply terminal (+12V) (analog system)
48	SIG. SENTER	I	DC voltage adjustment terminal for R, G, B, and PSIG signals output
49	VCC1	_	Power supply terminal (+3V) (analog system)
50	VXO OUT	O	System clock output terminal (4.433619MHz)
51	VXO IN	I	System clock input terminal (4.433619MHz)
52	APC	O	Connection terminal of APC detection filter
53	B-Y IN	I	B-Y color difference-signal input from the demodulating circuit
54	R-Y IN	I	R-Y color difference-signal input from the demodulating circuit
55	C OUT	O	Video signal (chroma signal) output to the CCD 1H delay line (IC911)
56	V REG	O	Ground for a smoothing capacitor in internal constant-voltage power supply circuit
57	C IN	I	Video signal (chroma signal) input terminal
58	RESET	I	System reset terminal
59	Y IN	I	Video signal (brightness signal) input terminal
60	TEST2	I	Input terminal for the test Not used (fixed at "L")
61	SYNC IN	I	Video signal (brightness signal) input to the sync separation circuit
62	VSEP TC	_	Capacitor connection terminal for vertical sync separation
63	F0 ADJ	О	Resistor connection terminal for internal filter adjustment Not used (open)
64	GND1	_	Ground terminal (analog system)

SECTION 5 EXPLODED VIEWS

NOTE:

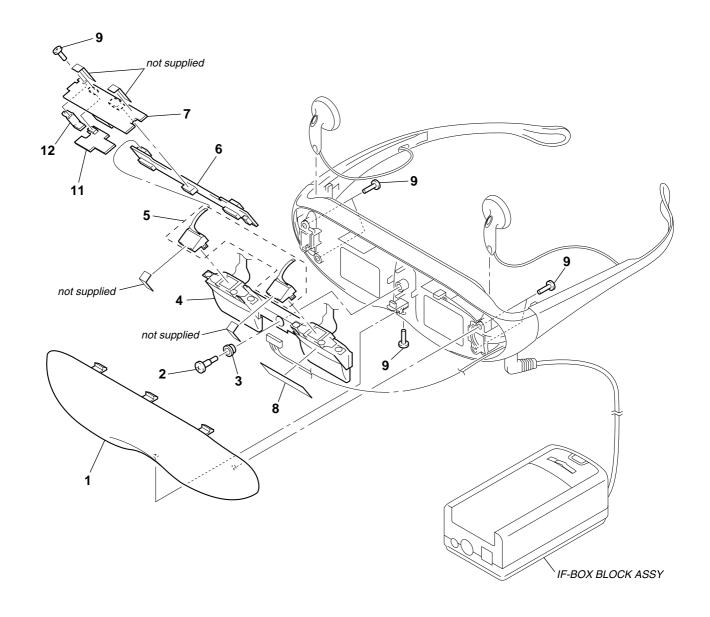
- -XX and -X mean standardized parts, so they may have some difference from the original
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE) . . . (RED)

Parts Color Cabinet's Color

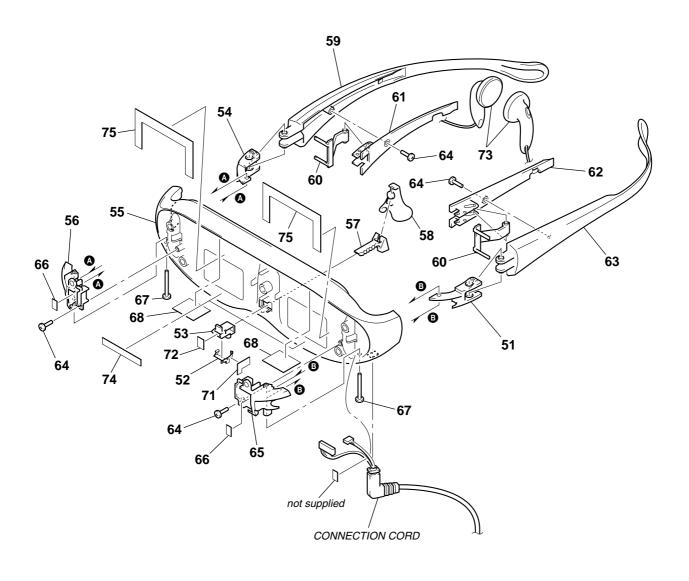
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- · The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrical parts list.

(1) CABINET SECTION-1



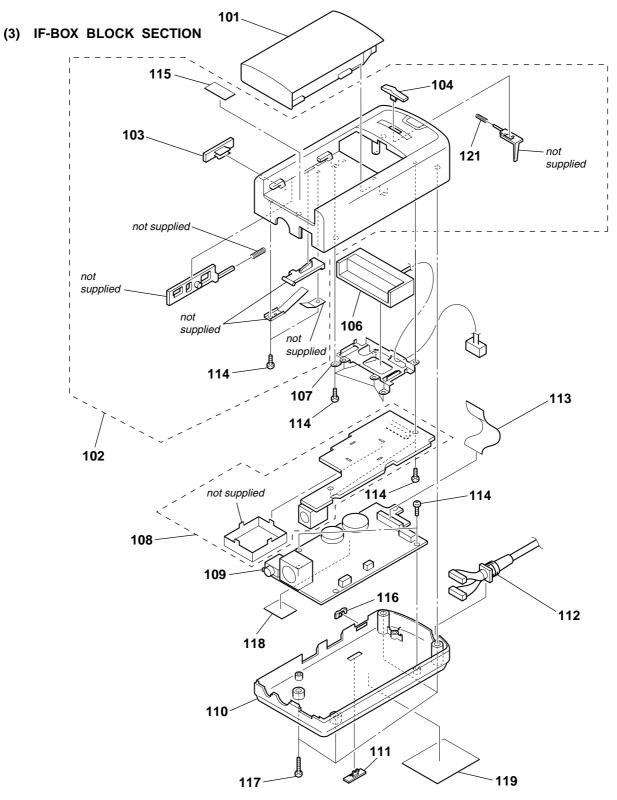
Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
1		CABINET (FRONT)		7		RG-A01 (C) COMPLETE PWB	
2	4-644-716-01	SCREW, STEP		8	4-645-476-01	SHEET, CORD CLAMP	
3	4-644-703-01	INSULATOR		9	3-929-548-11	SCREW (1.7X6), +PTT	
4	1-418-753-11	LENS BLOCK		11	A-8056-669-A	DL-A01 COMPLETE PWB	
5	1-418-752-21	LIGHT UNIT, BACK (S)		12	4-647-055-01	HOLDER, PC BOARD	
6	A-8056-675-A	HP-A01 (C) MOUNTED PWB					

(2) CABINET SECTION-2



Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
51	4-644-739-01	BEARING (L), HINGE		63	4-644-735-02	VINE (L)	
52	4-644-704-02	SPRING, NOSE		64	3-929-548-11	SCREW (1.7X6), +PTT	
53	4-644-705-01	BLOCK, NOSE		65	4-644-737-02	BLOCK (L), HINGE	
54	4-644-738-01	BEARING (R), HINGE		66	4-645-477-01	SHEET, HINGE BLIND	
55	X-4622-756-1	CABINET (REAR) ASSY		67	4-645-431-01	SCREW (2X20), +PTT	
56	4-644-736-02	BLOCK (R), HINGE		68	4-645-478-01	SHEET, FLEXIBLE ELECTROSTATIC	
57	4-644-702-01	SHAFT, NOSE		71	4-645-974-01	SHEET (HORIZONTAL), NOSE BLOCK	
58	4-644-701-12	PAD, NOSE		72	4-645-973-01	SHEET (REAR), NOSE BLOCK	
59	4-644-734-02	VINE (R)		73	8-953-771-90	RECEIVER, EAR MDR-E805PT//K SET	•
60	4-644-742-02	ADJUSTOR		74	4-646-546-01	SHEET (LOWER), DUST PROTECTION	l
61		COVER (R), VINE		75	4-646-547-01	SHEET (UPPER), DUST PROTECTION	
62	4-644-741-01	COVER (L), VINE					

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Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
101	4-644-715-01	COVER, BATTERY		112	1-791-933-11	CORD, CONNECTION (MR)	
102	X-4622-740-1	CABINET (IF) ASSY, UPPER		113	1-791-934-11	CABLE, FLAT (FFC) 17P	
103	3-988-786-11	BUTTON, BATTERY RELEASE		114	3-948-339-61	TAPPING	
104	3-050-073-11	KNOB, POWER		115	4-645-565-01	LABEL, CHARGE CAUTION	
106	1-694-076-21	TERMINAL BOARD, BATTERY		116	3-050-081-11	KNOB, SCREEN	
107	4-644-747-02	PLATE, TERMINAL RETAINER		117	3-936-997-01	SCREW (DIA. 2X20), PRECISION	
108	A-8056-673-A	DD-A02 (C) COMPLETE PWB		118	4-645-961-01	INSULATING SHEET	
109	A-8056-671-A	YM-A01 (C) COMPLETE PWB		119	4-645-724-01	LABEL, CAUTION	
110	4-644-721-01	CABINET (IF), LOWER		121	3-355-445-01	SPRING, COMPRESSION	
111	4-644-722-01	KNOB, USER LOCK					

<u>MEMO</u>

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DD-A02

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- · Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- · -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor.

F: nonflammable

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

In each case, u: μ , for example:

 $\begin{array}{ll} uA. & : \mu A. \ . \\ uPB. & : \mu PB. \ . \end{array}$ uPA. . : μPA. . uPC. . : μPC. . uPD. . : μPD. .

 CAPACITORS uF: μF

 COILS uH: μH The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		DD-A02 (C) COMI	DI ETE DIME)		D101		DIODE 02DZ24-2	7 /TD⊔2\		
	A-0030-073-A	********				D101		DIODE 02D224-2			
						D102		DIODE SB05-050			
C102	1-164-506-11	CERAMIC CHIP	4.7uF		16V	D103		LED CL-170G-0		FR)	
C104		CERAMIC CHIP	0.1uF		25V	D108		DIODE SB01-150		,	
C106	1-126-204-11		47uF	20%	16V	2.00	0 0 00	2.022 0200.			
C107		CERAMIC CHIP	0.1uF	10%	16V	 ∆ F301	1-533-626-21	FUSE (SMD)	1.25A	125V	
C108		CERAMIC CHIP	4PF	0.25PF		 ∆ F302	1-533-626-21		1.25A	125V	
								,			
C109		CERAMIC CHIP	470PF	2%	50V	FB101	1-543-962-22	FERRITE			
C110	1-164-156-11	CERAMIC CHIP	0.1uF		25V	FB103	1-543-962-22				
C112	1-107-727-91	CERAMIC CHIP	0.022uF	10%	16V	FB105	1-216-295-91		0		
C113	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	FB107	1-216-864-11	SHORT	0		
C114	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	FB108	1-216-295-91	SHORT	0		
C115	1 162 062 11	CERAMIC CHIP	470PF	10%	50V	FB109	1-216-295-91	CHUDT	0		
C116		CERAMIC CHIP	0.047uF	10%	25V	FB109	1-210-295-91	SHUNI	U		
C117		CERAMIC CHIP	470PF	10%	50V	IC101	8_750_060_03	IC MB3785APFV	-C-BND-EB	,	
C118		CERAMIC CHIP	470PF	10%	50V	IC101		IC S-81332HG-K		1	
C119		CERAMIC CHIP	680PF	10%	50V	10102	0-733-003-70	10 0-01002110-1	.0-11		
0113	1 102 300 11	OLITAWIO OTIII	00011	10 /0	30 V	J101	1-695-565-11	JACK, DC (POLAF	RITY LIMIFIE	n TVPF)	
C120	1-162-963-11	CERAMIC CHIP	680PF	10%	50V	0101	1 000 000 11	OAON, DO (I OLAI	IIII OIVIIIL		DC IN 9V)
C121		CERAMIC CHIP	680PF	10%	50V					(DO III OV)
C122		CERAMIC CHIP	680PF	10%	50V	L101	1-424-653-11	INDLICTOR	10uH		
C123	1-126-395-11		22uF	20%	16V	L102	1-402-831-21		68uH		
C124	1-126-395-11		22uF	20%	16V	L103	1-414-398-11		10uH		
0.2.				2070		L104	1-424-675-11		33uH		
C125	1-164-506-11	CERAMIC CHIP	4.7uF		16V	L106		INDUCTOR CHIP			
C126		CERAMIC CHIP	4.7uF		10V						
C127	1-164-506-11	CERAMIC CHIP	4.7uF		16V	L107	1-412-030-11	INDUCTOR CHIP	22uH		
C128	1-164-506-11	CERAMIC CHIP	4.7uF		16V	L108		INDUCTOR CHIP			
C129	1-164-506-11	CERAMIC CHIP	4.7uF		16V	L109	1-412-030-11	INDUCTOR CHIP	22uH		
						L110	1-412-030-11	INDUCTOR CHIP	22uH		
C131	1-126-393-11	ELECT CHIP	33uF	20%	10V						
C132	1-126-393-11	ELECT CHIP	33uF	20%	10V	Q101	8-729-029-14	TRANSISTOR	DTC144EU	JA-T106	
C134	1-164-506-11	CERAMIC CHIP	4.7uF		16V	Q102	8-729-804-52	TRANSISTOR	2SB1122-	T-TD	
C135	1-164-506-11	CERAMIC CHIP	4.7uF		16V	Q103	8-729-046-98	TRANSISTOR	CPH6702-	TL	
C136	1-164-346-11	CERAMIC CHIP	1uF		16V	Q104	8-729-046-98		CPH6702-	TL	
						Q105	8-729-046-98	TRANSISTOR	CPH6702-	TL	
C137		CERAMIC CHIP	1uF		16V						
C138		CERAMIC CHIP	0.022uF	10%	16V	R101	1-216-841-11		47K	5%	1/16W
C139		CERAMIC CHIP	0.0047uF		50V	R102	1-216-841-11		47K	5%	1/16W
C140		CERAMIC CHIP			50V		1-216-825-11		2.2K	5%	1/16W
C141	1-135-259-11	TANTALUM CHIP	10uF	20%	6.3V	R104	1-216-819-11		680	5%	1/16W
0		0504440 0005	0.4 =		0517	R105	1-216-864-11	SHORT	0		
C142		CERAMIC CHIP	0.1uF		25V	D	4 040 00= /:	METAL COOR	0.017	0.50	1/10::-
C143		CERAMIC CHIP	0.1uF	0001	25V	R106	1-218-867-11		6.8K	0.5%	1/16W
C144	1-135-259-11	TANTALUM CHIP	10uF	20%	6.3V	R107	1-218-871-11		10K	0.5%	1/16W
. 011101	1 570 700 6:	DIN CONTESTS	. /4 =	OMB: 55		R108	1-218-863-11		4.7K	0.5%	1/16W
* CN101		PIN, CONNECTOR		SMD) 5F	,	R109	1-216-833-91		10K	5%	1/16W
CN102	1-//4-/68-11	CONNECTOR, FFC	/rPU 1/P			R110	1-216-833-91	KES-UHIP	10K	5%	1/16W

DD-A02 DL-A01 HP-A01

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R111	1-218-871-11	•	10K	0.5%	1/16W						
R112	1-218-871-11		10K	0.5%	1/16W	CT911	1-141-367-51	CAP, CHIP TRIM	MER 20PF		
R113 R114	1-218-903-11 1-218-863-11		220K 4.7K	0.5% 0.5%	1/16W 1/16W	FL911	1-233-455-21	FILTER, BAND PA	ASS		
R115	1-218-871-11		10K	0.5%	1/16W	FL912	1-459-949-11				
R116	1-216-846-11	RES-CHIP	120K	5%	1/16W	IC911	8-752-353-94	IC CXL5505M-T	4		
R117	1-216-845-11	RES-CHIP	100K	5%	1/16W	10011	0 702 000 01	TO OXEGOGOW T			
R118 R119	1-216-825-11 1-216-825-11		2.2K 2.2K	5% 5%	1/16W 1/16W	L911	1-414-754-11	INDUCTOR	10uH		
R120	1-216-855-11		680K	5% 5%	1/16W	Q911	8-729-420-24	TRANSISTOR	2SB1218A	۱-QRS-T	(
						Q912		TRANSISTOR	2SB1218A		
R121	1-218-871-11		10K	0.5%	1/16W	Q913		TRANSISTOR	2SD1819/		
R122 R123	1-218-863-11 1-218-879-11		4.7K 22K	0.5% 0.5%	1/16W 1/16W	Q914 Q915		TRANSISTOR TRANSISTOR	2SB1218A 2SB1218A		
R124	1-218-873-11		12K	0.5%	1/16W	Q313	0-725-420-24	MANGIOTON	20012107	t-QIIO-I/	`
R125	1-218-863-11		4.7K	0.5%	1/16W	R911	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
						R912	1-216-857-11	RES-CHIP	1M	5%	1/16W
R126	1-218-871-11		10K	0.5%	1/16W	R913	1-216-844-11		82K	5%	1/16W
R127	1-216-825-11		2.2K	5%	1/16W	R914	1-216-821-11		1K	5%	1/16W
R128	1-216-853-11		470K	5%	1/16W	R915	1-216-851-11	RES-CHIP	330K	5%	1/16W
R129 R130	1-216-853-11 1-216-825-11		470K 2.2K	5% 5%	1/16W 1/16W	R916	1-216-854-11	DEC-CHID	560K	5%	1/16W
nisu	1-210-025-11	NEO-UNIF	2.ZR	J /0	1/1000	R917	1-216-811-11		150	5%	1/16W
R131	1-218-881-11	METAL CHIP	27K	0.5%	1/16W	R918	1-216-821-11		1K	5%	1/16W
R132	1-218-895-11		100K	0.5%	1/16W	R919	1-216-821-11		1K	5%	1/16W
R133	1-218-881-11	METAL CHIP	27K	0.5%	1/16W	R920	1-216-841-11	RES-CHIP	47K	5%	1/16W
R134	1-216-845-11		100K	5%	1/16W						
R135	1-216-846-11	RES-CHIP	120K	5%	1/16W	R921	1-216-841-11		47K	5%	1/16W
R136	1-216-817-11	DEC CHID	470	5%	1/16W	R922 R923	1-216-821-11 1-216-821-11		1K 1K	5% 5%	1/16W 1/16W
R137	1-216-817-11		470	5%	1/16W	R924	1-216-821-11		1K	5%	1/16W
R138	1-216-817-11		470	5%	1/16W	R925	1-218-288-11		300	5%	1/16W
R139	1-216-817-11		470	5%	1/16W						
R140	1-216-845-11	RES-CHIP	100K	5%	1/16W	R926	1-216-821-11	RES-CHIP	1K	5%	1/16W
R141	1-216-797-11		10	5%	1/16W	RV911		RES, ADJ, CERM			
R142	1-216-295-91		0	F0/	4/4004/	******	******	******	*******	*******	******
R143 R146	1-216-853-11 1-216-864-11		470K 0	5%	1/16W		Λ- <u></u> 8056-675-Λ	HP-A01 (C) MOU	NITEN DWR		
							A-0030-073-A	******			
S101		SWITCH, PUSH (
S102	1-5/1-/8/-31	SWITCH, TACTILE	: (START/B	ATT CHE	CK)	C701		CERAMIC CHIP			16V
T101	1-429-719-21	TRANSFORMER,	ու-ու ւու	IIV/FRTFR		C702 C703		CERAMIC CHIP CERAMIC CHIP	1uF 1uF		16V 16V
		******				C704		CERAMIC CHIP	1uF		16V
						C705		CERAMIC CHIP	1uF		16V
	A-8056-669-A	DL-A01 COMPLE									
		******	*****			CN701		CONNECTOR, BO		ARD 20F)
0011	1 105 050 11	TANTALUM CHIP	10E	200/	6 21/	CN702		CONNECTOR, FFO			
C911 C913		CERAMIC CHIP	0.01uF	20% 10%	6.3V 25V	CN703 CN704		CONNECTOR, FFO			
C914		CERAMIC CHIP	0.001uF	10%	50V	CN705		CONNECTOR, FF		6P	
C915		CERAMIC CHIP	0.001uF	10%	50V				-,,	-	
C916	1-164-156-11	CERAMIC CHIP	0.1uF		25V	CN706	1-573-915-11	CONNECTOR, FF	C/FPC (ZIF)	6P	
C917	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	D702	8-719-017-13	DIODE 02DZ7.5	-TPH3		
C918		CERAMIC CHIP	0.01uF		50V	D703		DIODE 02DZ7.5			
C919		CERAMIC CHIP	0.1uF	400/	25V	D704		DIODE 02DZ7.5			
C920		CERAMIC CHIP	0.1uF	10%	16V	D705	8-719-017-13	DIODE 02DZ7.5	-1PH3		
C921	1-104-130-11	CERAMIC CHIP	0.1uF		25V	Q701	8-729-402-38	TRANSISTOR	2SD1819A	\-R-TX	
C922	1-162-974-11	CERAMIC CHIP	0.01uF		50V	Q701		TRANSISTOR	2SD1819A		
C923		CERAMIC CHIP	1uF	10%	10V	Q703	8-729-402-38	TRANSISTOR	2SD1819A		
C924		CERAMIC CHIP	0.1uF	10%	16V	Q704		TRANSISTOR	2SD1819A		
C925		CERAMIC CHIP	0.1uF	10%	16V	Q705	8-729-402-38	TRANSISTOR	2SD1819A	A-R-TX	
C928	1-164-156-11	CERAMIC CHIP	0.1uF		25V	0700	0 700 400 00	TDANCICTOR	2601010	\ D TV	
* CN911	1-691-921-11	CONNECTOR, BO	ARD TO BO	ARD 10F)	Q706 Q707		TRANSISTOR TRANSISTOR	2SD1819A 2SD1819A		
-		,				-					

RG-A01

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
Q708	8-729-402-38	TRANSISTOR	2SD1819A	-R-TX							
Q709	8-729-402-38		2SD1819A			C821	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
Q710	8-729-402-38	TRANSISTOR	2SD1819A	-R-TX		C822		CERAMIC CHIP	0.33uF	10%	16V
						C823		CERAMIC CHIP	0.01uF	10%	25V
R701	1-216-864-11		0			C825		CERAMIC CHIP	1uF		16V
R702 R703	1-216-864-11 1-216-864-11		0			C826	1-164-346-11	CERAMIC CHIP	1uF		16V
R703	1-216-864-11		0			C827	1-164-346-11	CERAMIC CHIP	1uF		16V
R705	1-216-864-11		0			C828		CERAMIC CHIP	0.0047uF	10%	50V
						C829		CERAMIC CHIP	0.1uF		25V
R707	1-216-832-11	RES-CHIP	8.2K	5%	1/16W	C830		CERAMIC CHIP	0.1uF		50V
R708	1-216-837-11		22K	5%	1/16W	C831	1-164-346-11	CERAMIC CHIP	1uF		16V
R709	1-216-837-11		22K	5%	1/16W	0000		0504440 01110			4014
R710 R712	1-216-832-11 1-216-823-11		8.2K 1.5K	5% 5%	1/16W 1/16W	C832 C833		CERAMIC CHIP CERAMIC CHIP	1uF 0.1uF		16V 25V
N/ 12	1-210-023-11	NEO-UNIF	1.5K	J /0	1/1000	C834		CERAMIC CHIP	0.1uF		25V 25V
R713	1-216-830-11	RES-CHIP	5.6K	5%	1/16W	C835		CERAMIC CHIP	0.1uF		25V
R714	1-216-825-11		2.2K	5%	1/16W	C836		CERAMIC CHIP	0.1uF		25V
R715	1-216-805-11	RES-CHIP	47	5%	1/16W						
R716	1-216-805-11		47	5%	1/16W	C902		CERAMIC CHIP	0.1uF	10%	16V
R717	1-216-805-11	RES-CHIP	47	5%	1/16W	C903	1-107-826-91	CERAMIC CHIP	0.1uF	10%	16V
D740	1 010 000 11	DEC CLUB	0.01/	5 0/	4 /4 00 44		4 700 450 04	0011150705 445			
R718 R719	1-216-832-11 1-216-837-11		8.2K 22K	5% 5%	1/16W 1/16W	* CN801 * CN802		CONNECTOR 11P CONNECTOR, BO		VDD 30E	,
R720	1-216-837-11		22K 22K	5 % 5%	1/16W	* CN802		CONNECTOR, BO			
R721	1-216-832-11		8.2K	5%	1/16W	* CN901		CONNECTOR, BO			
R722	1-216-823-11		1.5K	5%	1/16W	0.100	. 0.0 00	0020.0, 20			
						D801	8-719-066-17	DIODE FTZ6.8E-	T148		
R723	1-216-830-11		5.6K	5%	1/16W						
R724	1-216-825-11		2.2K	5%	1/16W	IC801		IC CXA3017R-T			
R725	1-216-805-11		47	5%	1/16W	IC804	8-759-430-57	IC M62367GP-7	5ED		
R726 R727	1-216-805-11 1-216-805-11		47 47	5% 5%	1/16W 1/16W	L801	1-414-754-11	INDUCTOR	10uH		
11/2/	1-210-003-11	NLO-OTHF	71	J /0	1/1000	L802	1-414-754-11		10uH		
R729	1-216-864-11	SHORT	0			L803	1-414-754-11		10uH		
R730	1-216-864-11		0			L804	1-414-754-11		10uH		
R731	1-216-864-11		0								
R732	1-216-864-11	SHORT	0			Q811	8-729-420-24		2SB1218A		
T11704	1 010 010 01	THE DAMAGE OF ALL	FO (4.000)			Q812	8-729-420-29		2SD1819A		
TH701		THERMISTOR, N				Q813	8-729-420-24 8-729-420-29		2SB1218A		
TH702		THERMISTOR, NI ********		******	******	Q814 Q830		TRANSISTOR	2SD1819A XN4401-(7		<u>.</u>
						Q000	0 125 400 21	THANOIOTOR	ו ו ו ו ו ו	· • • • • • • • • • • • • • • • • • • •	
	A-8056-676-A	RG-A01 (C) COM	PLETE PWE	}		Q831	8-729-403-27	TRANSISTOR	XN4401-(ΓW)	
		******	*****	*		Q901	8-729-420-24	TRANSISTOR	2SB1218A	-QRS-TX	,
C801		TANTALUM CHIP		20%	16V	R801	1-216-864-11		0		
C802		CERAMIC CHIP	0.01uF	000/	50V	R802	1-216-864-11		0		
C803 C804		TANTALUM CHIP CERAMIC CHIP	0.01uF	20%	6.3V 50V	R803 R804	1-216-864-11 1-216-864-11		0		
C805		TANTALUM CHIP		20%	6.3V	R805	1-216-864-11		0		
5550				, , ,					-		
C806	1-162-974-11	CERAMIC CHIP	0.01uF		50V	R806	1-216-864-11		0		
C807		TANTALUM CHIP	3.3uF	20%	6.3V	R807	1-216-864-11		0		
C808		CERAMIC CHIP	0.0068uF	10%	25V	R808	1-216-864-11		0		
C809		CERAMIC CHIP	0.01uF	400/	50V	R810	1-216-864-11		0	E0/	4 (4 0) 14
C810	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	R811	1-216-833-91	KE2-CHIP	10K	5%	1/16W
C811	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	R812	1-216-816-11	RES-CHIP	390	5%	1/16W
C812		CERAMIC CHIP	0.47uF	10%	16V	R813	1-216-864-11		0	J , U	.,
C813		CERAMIC CHIP	0.01uF	- /-	50V	R814	1-216-864-11		0		
C814		CERAMIC CHIP	16PF	5%	50V	R815	1-216-864-11		0		
C815	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	R816	1-216-864-11	SHORT	0		
0040	1 104 077 11	OFDAMIO OLUB	0.000. 5	100/	101/	D047	1 010 004 11	CHODT	0		
C816 C817		CERAMIC CHIP CERAMIC CHIP	0.033uF 1uF	10%	16V 16V	R817 R818	1-216-864-11 1-216-864-11		0		
C817		TANTALUM CHIP		20%	6.3V	R819	1-216-864-11		0		
C819		CERAMIC CHIP	0.1uF	_5/0	25V	R820	1-216-864-11		0		
C820		CERAMIC CHIP	1uF	10%	10V	R822	1-216-864-11		0		

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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
11011 1101	<u> </u>	<u> </u>			<u> </u>	C210	1-164-489-11	•	0.22uF	10%	16V
R823	1-216-864-11	SHORT	0			C211		CERAMIC CHIP	330PF	5%	50V
R824	1-216-864-11		0			0211	1 101 000 01	OLI II IIII O OI III	00011	0 70	001
R825	1-216-833-91		10K	5%	1/16W	C212	1-164-390-91	CERAMIC CHIP	330PF	5%	50V
R826	1-216-834-11	RES-CHIP	12K	5%	1/16W	C214	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R827	1-216-836-11	RES-CHIP	18K	5%	1/16W	C215	1-124-778-21		22uF	20%	6.3V
						C216		CERAMIC CHIP	1uF		16V
R828	1-216-834-11		12K	5%	1/16W	C217	1-124-779-21	ELECT CHIP	10uF	20%	16V
R829	1-216-836-11		18K	5%	1/16W	0040		0554440 01115	0.4.5		0517
R830	1-216-812-11		180	5%	1/16W	C218		CERAMIC CHIP	0.1uF	4.00/	25V
R831 R832	1-216-812-11		180 10K	5% 5%	1/16W	C219 C220		CERAMIC CHIP CERAMIC CHIP	1uF 1uF	10%	10V 16V
nosz	1-216-833-91	NEO-CHIP	IUN	5%	1/16W	C220		CERAMIC CHIP	1uF		10V 10V
R833	1-216-827-11	BES-CHID	3.3K	5%	1/16W	C223		CERAMIC CHIP	0.001uF	10%	50V
R834	1-216-837-11		22K	5%	1/16W	0223	1-102-304-11	OLITAWIO OTIII	0.00 Tul	10 /0	30 V
R835	1-216-812-11		180	5%	1/16W	C224	1-164-156-11	CERAMIC CHIP	0.1uF		25V
R836	1-216-823-11		1.5K	5%	1/16W	C225		CERAMIC CHIP	1uF		16V
R837	1-216-833-91		10K	5%	1/16W	C226		CERAMIC CHIP	2.2uF		16V
						C227	1-164-222-11	CERAMIC CHIP	0.22uF		25V
R838	1-216-833-91	RES-CHIP	10K	5%	1/16W	C228	1-164-222-11	CERAMIC CHIP	0.22uF		25V
R839	1-216-837-11		22K	5%	1/16W						
R840	1-216-864-11	SHORT	0			C229	1-126-210-21		220uF	20%	4V
R841	1-216-864-11		0			C232	1-124-779-21		10uF	20%	16V
R842	1-216-837-11	RES-CHIP	22K	5%	1/16W	C301	1-124-778-21		22uF	20%	6.3V
						C302		CERAMIC CHIP	1uF		16V
R843	1-216-864-11		0			C303	1-124-778-21	ELECT CHIP	22uF	20%	6.3V
R844	1-216-864-11		0			2004		0554440 01115	0.04 5		501/
R845	1-216-864-11		0			C304		CERAMIC CHIP	0.01uF		50V
R846 R847	1-216-864-11		0			C305 C306		CERAMIC CHIP CERAMIC CHIP	0.1uF 22PF	E 0/	25V 50V
N041	1-216-864-11	SHUNI	U			C307		CERAMIC CHIP	22PF	5% 5%	50V 50V
R848	1-216-864-11	SHORT	0			C308		CERAMIC CHIP	0.0022uF	10%	50V 50V
R849	1-216-864-11		0			0300	1-102-300-11	OLITAWIO OTIII	0.00ZZui	10 /0	30 V
R851	1-216-817-11		470	5%	1/16W	C309	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
R855	1-216-819-11		680	5%	1/16W	C310		CERAMIC CHIP	22PF	5%	50V
R856	1-216-819-11		680	5%	1/16W	C311		CERAMIC CHIP	22PF	5%	50V
						C312	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
R857	1-216-821-11	RES-CHIP	1K	5%	1/16W	C313	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
R861	1-216-819-11	RES-CHIP	680	5%	1/16W						
R862	1-216-819-11		680	5%	1/16W	C314	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
R863	1-216-823-11		1.5K	5%	1/16W	C315		CERAMIC CHIP	22PF	5%	50V
R864	1-216-837-11	RES-CHIP	22K	5%	1/16W	C316		CERAMIC CHIP	1uF		16V
			_			C317		CERAMIC CHIP	0.1uF		25V
R865	1-216-864-11		0			C318	1-124-779-21	ELECT CHIP	10uF	20%	16V
R866	1-216-864-11		0			0010	1 100 001 11	CEDAMIC CUID	2205	E0/	EOV.
R873 R874	1-216-864-11 1-216-864-11		0			C319 C320		CERAMIC CHIP CERAMIC CHIP	33PF 18PF	5% 5%	50V 50V
R876	1-216-864-11		0			C321		CERAMIC CHIP	0.1uF	J /0	25V
11070	1 210 001 11	OHOITI	· ·			C322		TANTALUM CHIP		20%	6.3V
R902	1-216-821-11	RES-CHIP	1K	5%	1/16W	C324		CERAMIC CHIP	0.01uF	/ / /	50V
R903	1-216-864-11		0	- / -	.,						
R906	1-216-864-11		0			C327	1-162-974-11	CERAMIC CHIP	0.01uF		50V
R908	1-216-828-11	RES-CHIP	3.9K	5%	1/16W	C328	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
						C330	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
X801		OSCILLATOR, CR				C331	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
*******	******	******	******	******	******	C333	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
	A-8056-671-A	YM-A01 (C) COM				C334		CERAMIC CHIP	0.1uF		25V
		******	********	15 AF		C335		CERAMIC CHIP	68PF	2%	50V
0004	1 104 770 01	ELECT OUR	10	200/	161/	C336		CERAMIC CHIP	68PF	2%	50V
C201	1-124-779-21		10uF	20%	16V	C337		CERAMIC CHIP	22PF	5%	50V
C202 C203		CERAMIC CHIP CERAMIC CHIP	220PF	5% 5%	50V	C338	1-102-9/4-11	CERAMIC CHIP	0.01uF		50V
C203		CERAMIC CHIP	220PF 1uF	J 70	50V 10V	C339	1-162-010-11	CERAMIC CHIP	22PF	5%	50V
C204 C205		CERAMIC CHIP	1uF		10V 10V	C340		CERAMIC CHIP	22PF	5% 5%	50V 50V
0200	7 110 100-11	SELECTION OF THE	ıuı		1 U V	C341		CERAMIC CHIP	22PF	5%	50V 50V
C207	1-126-198-21	ELECT CHIP	4.7uF	20%	35V	C342		CERAMIC CHIP	22PF	5%	50V
C208	1-126-198-21		4.7uF	20%	35V	C344		CERAMIC CHIP	0.1uF		25V
C209	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V						

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Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
C346		CERAMIC CHIP	33PF	5%	50V	FB403	1-216-864-11		0		
C402	1-124-778-21		22uF	20%	6.3V	FB404	1-216-864-11		0		
C403		CERAMIC CHIP	0.1uF		25V	FB405	1-216-864-11	SHORT	0		
C404	1-124-778-21		22uF	20%	6.3V				_		
C405	1-164-156-11	CERAMIC CHIP	0.1uF		25V	FB406	1-216-864-11		0		
						FB407	1-216-295-91		0		
C406		CERAMIC CHIP	0.1uF		25V	FB408	1-216-295-91	SHORT	0		
C407		CERAMIC CHIP	0.1uF		25V						
C408		CERAMIC CHIP	0.1uF		25V	FL401	1-234-185-21	FILTER, ENCAPS	ULATED		
C409	1-124-778-21		22uF	20%	6.3V	10004	0.750.400.00	10 040574050			
C410	1-124-778-21	ELECT CHIP	22uF	20%	6.3V	IC201		IC BA3574BFS-I		15	
0.444	4 400 000 44	0504440 01110		100/	4014	IC301		IC MB89082PF\		ID	
C411		CERAMIC CHIP	1uF	10%	10V	IC302		IC AK6420AM-E			
C412		CERAMIC CHIP	33PF	5%	50V	IC303		IC S-81350HG-I			
C413		CERAMIC CHIP	33PF	5%	50V	IC304	8-759-519-46	IC S-80730AN-I) - 1		
C414		CERAMIC CHIP	0.1uF	000/	25V	10404	0.750.440.00	IO MMAAAOVED	_		
C415	1-135-259-11	TANTALUM CHIP	10uF	20%	6.3V	IC401		IC MM1113XFB			
0446	1 104 150 11	OEDAMIO OLUB	0.45		051/	IC402		IC MM1113XFB			
C416		CERAMIC CHIP	0.1uF	F0/	25V	IC404		IC MSM5258MS			
C417		CERAMIC CHIP	47PF	5%	50V	IC405		IC TC74VHC04F			
C418		CERAMIC CHIP	0.1uF	400/	25V	IC407	8-759-256-43	IC NJM2903M-1	IE2		
C419		CERAMIC CHIP	0.0033uF		50V	1404	4 770 070 44	COMMENTOR (DO	NUMB TVDE	· 4D (0.1	(IDEO IN)
C422	1-124-778-21	ELECT CHIP	22uF	20%	6.3V	J401		CONNECTOR (RC			/IDEO IN)
0.400	4 404 450 44	OED ANAIO OLUB	0.4 5		051/	J402	1-778-040-11	JACK, SMALL TY	PE (A/V IN)	
C423	1-164-156-11	CERAMIC CHIP	0.1uF		25V		1 010 005 01	OHODE	•		
011000	4 774 700 44	0011150700 55	0/EDO 47D			L302	1-216-295-91		0		
CN302		CONNECTOR, FFO				L303	1-216-295-91		0		
CN303		PIN, CONNECTOR				L304	1-414-081-11		33uH		
CN304		PIN, CONNECTOR		(ONAD) 01		L305	1-412-960-71		56uH		
CN305		PIN, CONNECTOR				L307	1-216-295-91	SHORT	0		
* CN306	1-5/3-984-11	CONNECTOR, BO	AKD TO BO	ARD 10F	,	1.404	1 010 005 01	OLIODT	•		
D007	0.710.041.00	DIODE DADOON	IT400			L401	1-216-295-91	SHURT	0		
D307		DIODE DAP2021				D0004	1 570 100 01	LINIZ IO			
D311		DIODE FTZ6.8E-				PS301	1-576-123-21	LINK, IC			
D316		DIODE 02DZ7.5				0001	0.700.400.00	TDANCICTOD	0004040	4 ODC T	v
D401		DIODE 02DZ7.5 DIODE 02DZ7.5				Q201 Q202	8-729-420-29	TRANSISTOR	2SD1819		
D402	0-719-017-13	טוטטב טעטנו.3	-17113				8-729-420-29		2SD1819		
D403	0 710 017 12	DIODE 02DZ7.5	TDU2			Q203 Q301	8-729-420-29		2SD1819 XN4601-		λ
D403 D404		DIODE 02DZ7.5				Q301	8-729-402-84		XN4601-		
D404 D405		DIODE 02DZ7.5				Q302	0-729-402-04	INANSISTUN	AN4001-	I VV	
D403 D406		DIODE 02DZ7.5				Q303	8-729-420-29	TDANGISTOD	2SD1819	Λ_ <u></u> ΩDQ_T	V
D400 D407						Q304			XN4213-		٨
D407	0-719-017-13	DIODE 02DZ7.5	-11113			Q304 Q305	8-729-420-12 8-729-420-29		2SD1819		V
D408	8_710_017_13	DIODE 02DZ7.5	-TDH3			Q401		TRANSISTOR	DTC144E		
D400 D409		DIODE 02DZ7.5				Q401	8-729-402-81		XN4501-	-	
D409 D410		DIODE 02DZ7.5				Q402	0-723-402-01	THANSISTON	XIV4301-	I VV	
D410 D411		DIODE 02DZ7.5				Q408	8-720-420-20	TRANSISTOR	2SD1819	A_ORS_T	Υ
וודע	0 110-011-10	DIODE OZDZI.O	11 110			Q413		TRANSISTOR	DTC144E		
FB301	1-216-864-11	SHORT	0			עדוט	3 723 023-14	. 10 1140101011	DIOITTL	J. 1100	
FB302	1-216-864-11		0			R201	1-216-821-11	RES-CHIP	1K	5%	1/16W
FB303	1-216-295-91		0			R202	1-216-821-11		1K	5%	1/16W
FB304	1-216-295-91		0			R205	1-216-845-11		100K	5%	1/16W
FB305	1-216-864-11		0			R206	1-216-853-11		470K	5%	1/16W
1 0000	1 210 004 11	OHOITI	U			R207	1-216-845-11		100K	5%	1/16W
FB306	1-216-295-91	SHORT	0			11201	. 2.0 0 10 11	31111		J /0	.,
FB307	1-216-864-11		0			R208	1-216-853-11	BES-CHIP	470K	5%	1/16W
FB308	1-216-864-11		0			R209	1-216-829-11		4.7K	5%	1/16W
FB309	1-216-864-11		0			R210	1-216-829-11		4.7K	5%	1/16W
FB310	1-216-864-11		0			R211	1-216-823-11		1.5K	5%	1/16W
1 2010	. 2.0 007 11	3113111	J			R212	1-216-823-11		1.5K	5%	1/16W
FB311	1-216-864-11	SHORT	0			''	. 2.0 020 11	0 01111		3 / 0	1, 1000
FB312	1-216-295-91		0			R213	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
FB313	1-216-295-91		0			R214	1-216-827-11		3.3K	5%	1/16W
FB314	1-216-295-91		0			R215	1-216-824-11		1.8K	5%	1/16W
FB315	1-216-295-91		0			R216	1-216-824-11		1.8K	5%	1/16W
1 2010	. 2.0 200 01	3113111	J			R217	1-216-821-11		1.0K	5%	1/16W
FB401	1-216-864-11	SHORT	0			,				- / -	.,
FB402	1-216-864-11		0			R219	1-216-857-11	RES-CHIP	1M	5%	1/16W
			-				*	- *::::	-		•

YM-A01

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Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>
R220	1-216-864-11		0			R357	1-216-845-11	RES-CHIP	100K	5%	1/16W
R221	1-216-789-11		2.2	5%	1/16W						
R222	1-216-789-11		2.2	5%	1/16W	R361	1-216-838-11		27K	5%	1/16W
R223	1-216-864-11	SHORT	0			R362	1-216-831-11		6.8K	5%	1/16W
						R363	1-216-821-11		1K	5%	1/16W
R224	1-216-864-11		0			R364	1-216-821-11		1K	5%	1/16W
R225	1-216-805-11		47	5%	1/16W	R365	1-216-821-11	RES-CHIP	1K	5%	1/16W
R226	1-216-833-91	RES-CHIP	10K	5%	1/16W						
R227	1-216-845-11	RES-CHIP	100K	5%	1/16W	R366	1-216-845-11	RES-CHIP	100K	5%	1/16W
R301	1-216-833-91	RES-CHIP	10K	5%	1/16W	R367	1-216-295-91	SHORT	0		
						R368	1-216-295-91	SHORT	0		
R302	1-216-833-91	RES-CHIP	10K	5%	1/16W	R371	1-216-834-11	RES-CHIP	12K	5%	1/16W
R303	1-216-833-91	RES-CHIP	10K	5%	1/16W	R372	1-216-834-11	RES-CHIP	12K	5%	1/16W
R304	1-216-827-11	RES-CHIP	3.3K	5%	1/16W						
R305	1-216-815-11	RES-CHIP	330	5%	1/16W	R373	1-216-819-11	RES-CHIP	680	5%	1/16W
R306	1-216-833-91	RES-CHIP	10K	5%	1/16W	R374	1-216-809-11	RES-CHIP	100	5%	1/16W
						R375	1-216-295-91	SHORT	0		
R307	1-216-833-91	RES-CHIP	10K	5%	1/16W	R401	1-218-285-11	RES-CHIP	75	5%	1/16W
R308	1-216-821-11	RES-CHIP	1K	5%	1/16W	R402	1-218-285-11	RES-CHIP	75	5%	1/16W
R309	1-216-827-11	RES-CHIP	3.3K	5%	1/16W						
R310	1-216-815-11	RES-CHIP	330	5%	1/16W	R403	1-218-285-11	RES-CHIP	75	5%	1/16W
R311	1-218-285-11	RES-CHIP	75	5%	1/16W	R404	1-216-295-91	SHORT	0		
						R405	1-216-821-11	RES-CHIP	1K	5%	1/16W
R312	1-216-845-11	RES-CHIP	100K	5%	1/16W	R406	1-216-821-11		1K	5%	1/16W
R313	1-216-845-11		100K	5%	1/16W	R407	1-216-829-11		4.7K	5%	1/16W
R315	1-216-845-11		100K	5%	1/16W		. 2.0 020			0 / 0	.,
R316	1-216-845-11		100K	5%	1/16W	R408	1-216-833-91	RES-CHIP	10K	5%	1/16W
R318	1-216-841-11		47K	5%	1/16W	R410	1-216-833-91		10K	5%	1/16W
11010	1 210 011 11	TIEG OTT	1710	0 70	17 10 11	R412	1-216-829-11		4.7K	5%	1/16W
R319	1-216-821-11	RES-CHIP	1K	5%	1/16W	R413	1-216-833-91		10K	5%	1/16W
R320	1-216-821-11		1K	5%	1/16W	R414	1-216-857-11		1M	5%	1/16W
R321	1-216-821-11		1K	5%	1/16W	11414	1-210-037-11	NEO-OHIF	IIVI	J /0	1/1000
R322	1-216-821-11		1K	5%	1/16W	R415	1-216-827-11	DEC CUID	3.3K	5%	1/16W
R323				5%	1/16W	R416	1-216-827-11		3.3K	5 % 5%	1/16W
nszs	1-216-821-11	NES-UNIP	1K	370	1/1000	1					
R324	1 010 001 11	DEC CLUD	1K	E0/	1/16W	R417 R419	1-216-809-11 1-216-857-11		100	5% 5%	1/16W 1/16W
	1-216-821-11			5%		1			1M		
R325	1-216-821-11		1K	5%	1/16W	R420	1-216-841-11	RES-CHIP	47K	5%	1/16W
R326	1-216-821-11		1K	5%	1/16W	D 404	1 010 000 01	DEC OUID	101/	F0/	4/4/01/1
R327	1-216-821-11		1K	5%	1/16W	R421	1-216-833-91		10K	5%	1/16W
R328	1-216-821-11	RES-CHIP	1K	5%	1/16W	R422	1-216-839-11		33K	5%	1/16W
D000	1 010 051 11	DEC OLUD	0001/	F0/	4 /4 0 1 1 /	R423	1-216-839-11		33K	5%	1/16W
R329	1-216-851-11		330K	5%	1/16W	R424	1-216-836-11		18K	5%	1/16W
R330	1-216-853-11		470K	5%	1/16W	R425	1-216-821-11	RES-CHIP	1K	5%	1/16W
R331	1-216-849-11		220K	5%	1/16W	D 400	4 040 007 44	DE0 0111D	2014	5 0/	4 /4 0114
R332	1-216-833-91		10K	5%	1/16W	R426	1-216-837-11		22K	5%	1/16W
R334	1-216-817-11	RES-CHIP	470	5%	1/16W	R427	1-216-833-91		10K	5%	1/16W
			_			R431	1-216-843-11		68K	5%	1/16W
R335	1-216-864-11		0			R441	1-216-825-11		2.2K	5%	1/16W
R336	1-216-864-11		0			R442	1-216-864-11	SHORT	0		
R337	1-216-833-91		10K	5%	1/16W						
R338	1-216-829-11		4.7K	5%	1/16W	R446	1-216-833-91		10K	5%	1/16W
R339	1-216-821-11	RES-CHIP	1K	5%	1/16W	R447	1-216-833-91		10K	5%	1/16W
						R459	1-216-864-11		0		
R340	1-216-821-11	RES-CHIP	1K	5%	1/16W	R460	1-216-864-11	SHORT	0		
R342	1-216-821-11		1K	5%	1/16W	R461	1-216-864-11	SHORT	0		
R344	1-216-821-11	RES-CHIP	1K	5%	1/16W						
R345	1-216-845-11	RES-CHIP	100K	5%	1/16W	R462	1-216-821-11	RES-CHIP	1K	5%	1/16W
R346	1-216-821-11	RES-CHIP	1K	5%	1/16W	R463	1-216-821-11	RES-CHIP	1K	5%	1/16W
						R465	1-216-864-11		0		
R347	1-216-845-11	RES-CHIP	100K	5%	1/16W						
R348	1-216-841-11		47K	5%	1/16W	RV201	1-241-748-11	RES, VAR, CAR	RBON 10K/1	OK (VOL)	
R349	1-216-841-11		47K	5%	1/16W	RV301		RES, VAR, CAI			
R350	1-216-821-11		1K	5%	1/16W			- , , •	(1	/	
R351	1-216-821-11		1K	5%	1/16W	S201	1-572-922-11	SWITCH, SLID	E (AVLS)		
11001	021 11	01111		J /3	., 1044	S301		SWITCH, SLID		CK)	
R352	1-216-833-91	RES-CHIP	10K	5%	1/16W		. 0.2 022 11	CTTTOTT, OLID	_ (55211 20	J. 1,	
R353	1-216-829-11		4.7K	5%	1/16W	X301	1-767-300-21	VIBRATOR, CF	RYSTAL (32 T	768kHz)	
R354	1-216-841-11		47K	5%	1/16W	X401		VIBRATOR, CE			
R355	1-216-821-11		1K	5%	1/16W	/ AU I	1 011 41-11	VIDITATON, OL	(0.00	5 (VII 14)	
11000	1 210-021-11	TILO-OTTIF	IIX	J /0	1/1044	•					

Ref. No. Part No. Description **Remark** XTL301 1-579-369-21 VIBRATOR (10MHz)

ACCESSORIES & PACKING MATERIALS ***********

1-475-456-24 ADAPTOR, AC (AC-PLM2)

1-575-131-31 CORD, POWER <u></u>* 1-777-690-11 CORD, CONNECTION 1-782-711-11 CABLE, AV MONITOR

3-868-186-31 MANUAL, INSTRUCTION

(ENGLISH, FRENCH, GERMAN)

3-868-186-41 MANUAL, INSTRUCTION

(DUTCH, SPANISH, ITALIAN)

4-644-701-32 PAD, NOSE

4-646-244-01 PAD

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

PLM-A35E (AEP)

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